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U. S. Department of Agriculture

Information Book on Gardening and Farming



PLANT No. 1

RUDY-PATRICK SEED COMPANY

CENTRAL INDUSTRIAL DISTRICT

KANSAS CITY

MISSOURI

Wholesale Seeds

SOLD BY

RUDY-PATRICK SEED COMPANY

WHOLESALE SEEDS

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NINTH AND SANTA FE STS

KANSAS CITY, MO.

Royal Brand Seeds Real Producers

THIS CATALOGUE is intended as a complete reference book on the best varieties of farm and garden seeds. We do not conduct a mail order business direct with consumers. Our seeds are sold by thousands of live progressive merchants and jobbers throughout the country. This patronage over a period of many years is the result of the dependability, hardiness and productiveness of our high grade selected seeds. Our seeds are grown in those sections of world production which our long experience has shown to reach their fullest development as to type and strain. Likewise our seeds are selected as to their adaptation to the sections in which we sell. To use cheaper and unknown seeds is to risk poor crops and unsatisfactory stands.

We maintain a complete laboratory for analyzing and testing the seeds we send out, thus insuring tested stock at no increased cost.

Our organization, developed through a quarter century of growth, is composed of men of ripe experience, trained in the technical demands of this exacting business, whose life work is dedicated to the promotion of better seeds and larger crops. In addition to the executives, who guide the policy of this business, is a large force of capable office, plant and field workers, seed analysts, cleaning and refining experts, field buyers and inspectors, feed millers, credit men, traffic men, etc.

A very few communities raise sufficient seeds for their own consumption. Even when some farm seeds are produced in a particular section, they may not be fit for seeding. They need to be analyzed in the laboratory for noxious weeds, to come under the eye of the experienced cleaner. Why experiment when the services of a large concern are at your service? Any slight increase in price over home grown or cheaper seeds is more than offset in the increased results per acre and larger yield in bushels and tons.

Then, too, our machinery and equipment is the most improved and modern. Our seeds are refined by new processes, special screens, air blasts, gravity separators, etc. All perform their minute operation, almost with human touch, and the many thousands of farmers and gardeners, who intrust their seed orders to the merchants handling our seeds, reap the benefit.

When the season for planting is on, large stocks must be quickly available. Our orders are usually shipped the same day they are received.

REAL SERVICE, not only in preparing seeds, but in getting them to the consumer, as needed, is our slogan.

"The reliance on the reputation and responsibility of seedsmen is more important than other vendors of goods and services as they deal with the life germ of the seed in the eternal cycle of plant production."

As crops are subject to the human element in sowing and reaping; governed by soil and seasons and the divine chemistry of nature there can be no guarantee of results by anyone in the cycle of production. It is therefore sound sense to rely on the personnel, laboratory equipment and reputation of a large seed house as Rudy-Patrick in order to safeguard as much as human experience and resources may permit. In common with other seedsmen we are forced to follow the nature of our business in respect to non-warranty of seeds and all goods are sold under the usual seedsmen's non-warranty disclaimer.

We give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any seeds we send out and we will not be responsible for the crop. If the purchaser does not accept the goods on these terms, he must notify us at once, and we will give instruction for disposition of goods.

RUDY-PATRICK SEED CO.



Royal Quality Seeds

We list all the main tried and tested sorts of Garden Seed. Varieties not listed in the catalogue may be procured through us. New and improved strains are constantly being developed. Do not confuse inferior strains under the same trade name with our Royal Quality selected and bred seeds.

Plant a good garden. It not only reduces the cost of living by providing in season fresh vegetables at a low cost, but furnishes healthy exercise and recreation. You will be surprised at the amount of delicious vegetables that can be grown in a back yard garden.

Our seeds can be purchased from most any dealer. If your dealer does not handle them, advise us and we will see that you obtain our genuine Royal pedigreed seeds. Do not experiment with cheap seed.

ASPARAGUS

CULTURE—Is a delicious spring vegetable. Produces best when planted in well drained soil with southern exposure. One ounce of seed will sow 40 feet of drill; 2 pounds produces enough roots for an acre.

WASHINGTON — An improved delicious variety, with large deep green sprouts.

BROCCOLI

Closely allied to the Cauliflower. In growing Broccoli, a seed-bed should be prepared and the seed sown in May. The plants will be ready to transplant late in June or early in July, and should be set in very rich mellow ground, in rows about 2½ feet apart, leaving 18 inches between the plants.

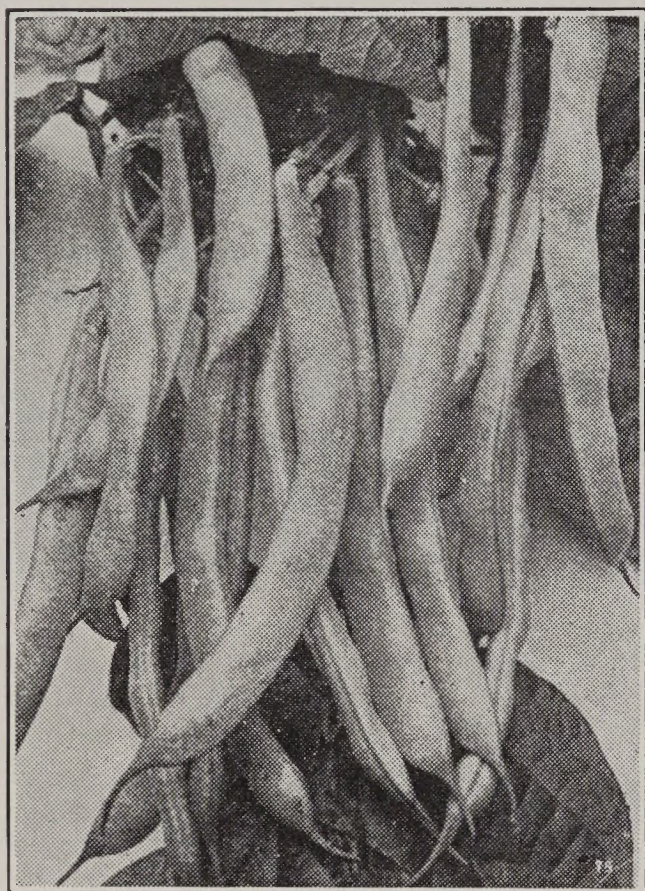
ITALIAN GREEN—Is the best sprouting sort for all purposes. Resembles a fine head of cauliflower with compact large green cluster of buds.

BRUSSELS SPROUTS

A species of the Cabbage family, which produces miniature heads from the sides of the stalk. These heads are a great delicacy, cooked in the same way as cauliflower. Sow seed about the middle of May, in a seed-bed, and the plants afterward set in rows 2 feet or more apart, and cultivate like cabbage.

LONG ISLAND IMPROVED—Grows dwarf and compact. About 20 inches tall with round cabbage like balls of 1½ inches in diameter. Very desirable sort.

BEANS



Golden Wax

DWARF WAX OR BUSH SORTS

CULTURE—Require good, well drained, manured soil. Do not plant until ground is dry and warm. Sow in drills from 2 to 3 feet apart; 1 to 2 inches deep, plant 2 to 3 inches apart in the drills. Use one pound to 100 feet of drill, 60 pounds to the acre. For season's supply, plant at intervals of one to two weeks until midsummer, cultivate shallow and never when foliage is wet.

PENCIL POD BLACK WAX, 52 Days—Produces crisp, tender, stringless pods in 52 days. Flavor is excellent. Yellow pods are 5 to 6 inches long, keeping a long time in condition for snaps. Seeds are black.

BLACK WAX SURE CROP OR BOUNTIFUL—Is desirable for truckers and shippers as well as home gardens. Pods are golden yellow, brittle and stringless with fine texture and quality. Seeds are jet black. Produces in 52 days from planting.

GOLDEN WAX, 48 Days—This is one of the most productive, earliest dwarf beans for the market or home-garden. Pods are five inches long, broad, flat, a golden yellow and stringless. Seed is white, covered with pur-

plish red. An old standard sort, but is hard to surpass.

ROUND POD KIDNEY or BRITTLE WAX—Has superior quality for both canning and home use. Produces vines from 14 to 15 inches tall and pods 5½ to 6½ inches long which are of excellent quality and absolutely stringless. Color of seed is white with dark brown to black irregular eye rings. A very fine sort.

WARDWELL'S KIDNEY WAX—Is early, hardy and productive. Makes long, flat, brittle, yellow pods. Seed is kidney shaped, good sized, white, with dark markings at the eye. Deserves a place in every garden.

DAVIS WHITE WAX—Is valuable for shipping to market. For family use, should be picked quite young. Seed is kidney shaped, pure white. The dry beans are excellent for cooking.

GREEN-POD DWARF BEANS

BOUNTIFUL, 48 Days—A green-pod bush bean which bears very early and continues throughout the season. Pods beautiful rich green, very thick, broad, long and uniform; meaty, tender, fine quality; stringless until quite old. Can be used as dry bean for winter use. A splendid market variety.

BURPEE'S STRINGLESS GREEN POD, 53 Days—It produces in profusion long, straight, round, deeply saddle-backed pods early in the season. The pods are absolutely stringless at all stages of growth, brittle, tender, and of real good flavor. One of the finest for home use.

LANDRETH'S STRINGLESS GREEN POD—Is similar to Burpee's Stringless and a most excellent type of this variety.

GIANT STRINGLESS GREEN POD, 53 Days—Produces medium green, tender, crisp pods averaging 5 to 6 inches long. Market gardeners prefer this sort, because of its productiveness. Is fine for canning. Seed is of medium size, in color, a yellowish brown.

TENDERGREEN STRINGLESS—Very desirable new sort for home and market garden. Produces a sturdy prolific vine 15 to 17 inches high with pods 4½ to 6½ inches long, round which are tender, brittle and absolutely stringless. Seeds are brown, mottled, blotched with light fawn.

FULL MEASURE, 52 Days—As its name implies, is a fine yielder of meaty, brittle, stringless pods 6 to 7 inches long. A most excellent bean for the home and a money maker for the market.

ROUND POD RED VALENTINE—An extra early variety that usually matures in 52 days; also fine for midsummer sowing, to ripen in September. The vigorous bushes bear an abundance of medium-length green pods which are very fleshy, crisp and tender. Dry beans are of medium size, long, pink, marbled red.

DWARF HORTICULTURAL, 53 Days—A late variety that is very productive of broad, flat, stringless pods. One of the best sorts for use as a Shell Bean. The dry beans are large, oval, nearly covered with splashes of bright red. The pods are green when young but when mature are yellow splashed with red.

TENNESSEE GREEN POD, 54 Days—Is the longest podded dwarf sort, often 6 to 7 inches, good size and of fine flavor. Is heavy cropper; also known as Dwarf Kentucky Wonder.

NAVY OR PEA—Ripe in 100 days—Used largely for the dry seed. Is the Navy Bean of commerce. Famous as "Boston Baked Beans." Dry beans are small and white.

GREAT NORTHERN—Somewhat larger than Navy Beans. Is heartier and heavier yielder.

PINTO or MEXICAN—This valuable bean is raised extensively in the west, withstanding dry weather well.

RED KIDNEY—A standard old variety that is grown almost exclusively for the dried beans, which are long, oval, and deep red in color.

MEXICAN CHILI (Idaho Red)—Is the well-known Chili Bean of commerce.

POLE BEANS

POLE BEANS—Are sensitive to cold and should be planted two weeks later than bush sorts. Set poles three feet apart in the row, making the rows 4 feet apart and extending north and south. Sow half dozen beans 2 inches deep around each pole; thin later to 4 plants. Can be trailed on wire netting as well.



Kentucky Wonder

KENTUCKY WONDER or OLD HOME-STEAD, 65 Days—An old favorite, but hard to surpass for its showy pods of excellent quality. Pods are fleshy, crisp, long bearing and delicious; seed long, oval and dun in color.

WHITE SEEDED KENTUCKY WONDER or BURGER'S STRINGLESS GREEN-POD—Uniformly straight, 6 to 8 inches in length, rich green, and very meaty; entirely stringless. The white beans are fine for winter use.

KENTUCKY WONDER WAX—Quite similar to the Kentucky Wonder or Old Home-

stead, except in the color of pods, which in this one are light waxy yellow. It has a thick, broad pod, very tender, of delicious flavor and stringless. The pods often attain a length of 8 to 9 inches.

LAZY WIFE, 74 Days—A great snap bean with pods up to 6 inches long, which are stringless, flat, fleshy, brittle, of delicious quality. Dry beans are round and white.

HORTICULTURAL or SPECKLED CRANBERRY—A midseason sort. Pods 5 inches long; straight, flat and good as shell beans only. Pods green, splashed with red.

CUT SHORT or CORN HILL—Is often planted in corn. Poles are not necessary. Snaps are short, about 3 1/2 inches. Seed grayish white, dusted with purplish red brown. Widely known and cultivated.

WHITE CREASEBACK, 62 Days—The pods grow in clusters and are from 5 to 6 inches in length, perfectly round and deeply creased. They are very fleshy, stringless and of the best quality. The beans are white and are excellent shelled for winter use.

MISSOURI WONDER—A splendid pole bean. Popular in the west and south. Is a good corn hill bean. Yields well and bears long, plump, well-filled, crease-backed pods. Is popular for green shell beans.

DUTCH CASE KNIFE—A climbing variety with long, flat, irregular pods, which become creamy white as they mature; seed broad, flat and clear white.

SCARLET RUNNER—Flowers scarlet and decorative. Is desirable for snaps and green shell beans.

LIMA BEANS

POLE LIMAS

The Limas being more tender and liable to rot in the ground if it is cold and wet, must be planted later—about the last of May or first week in June. Plant about two inches deep. The seed of the Limas is very large, flat, and white in color.

SMALL CAROLINA, or SIEVA LIMA—This is a small type of the pole limas. It matures quickly, produces immense crops, and makes an excellent bean for winter use.

KING OF THE GARDEN LIMA—Vines very vigorous and productive. Pods medium dark green, very large, 5 to 6 inches long, broad, flat, filled with four or five immense white beans of finest quality. On account of its large pods, it is a favorite with market gardeners. Seed very large, ovoid, flat, white, with slight greenish tint.

LARGE WHITE LIMA—The old-fashioned Pole Lima. Long, thick pods and large, meaty beans of good quality. Dry beans resemble King of the Garden very closely.

FLORIDA BUTTER (Speckled Pole Limas), 77 Days—Bears well throughout the season. Produces small beans of good quality in both green and dry state.

DWARF LIMAS

BUSH LIMA (HENDERSON'S)—Extremely early; vines are without runners, but con-

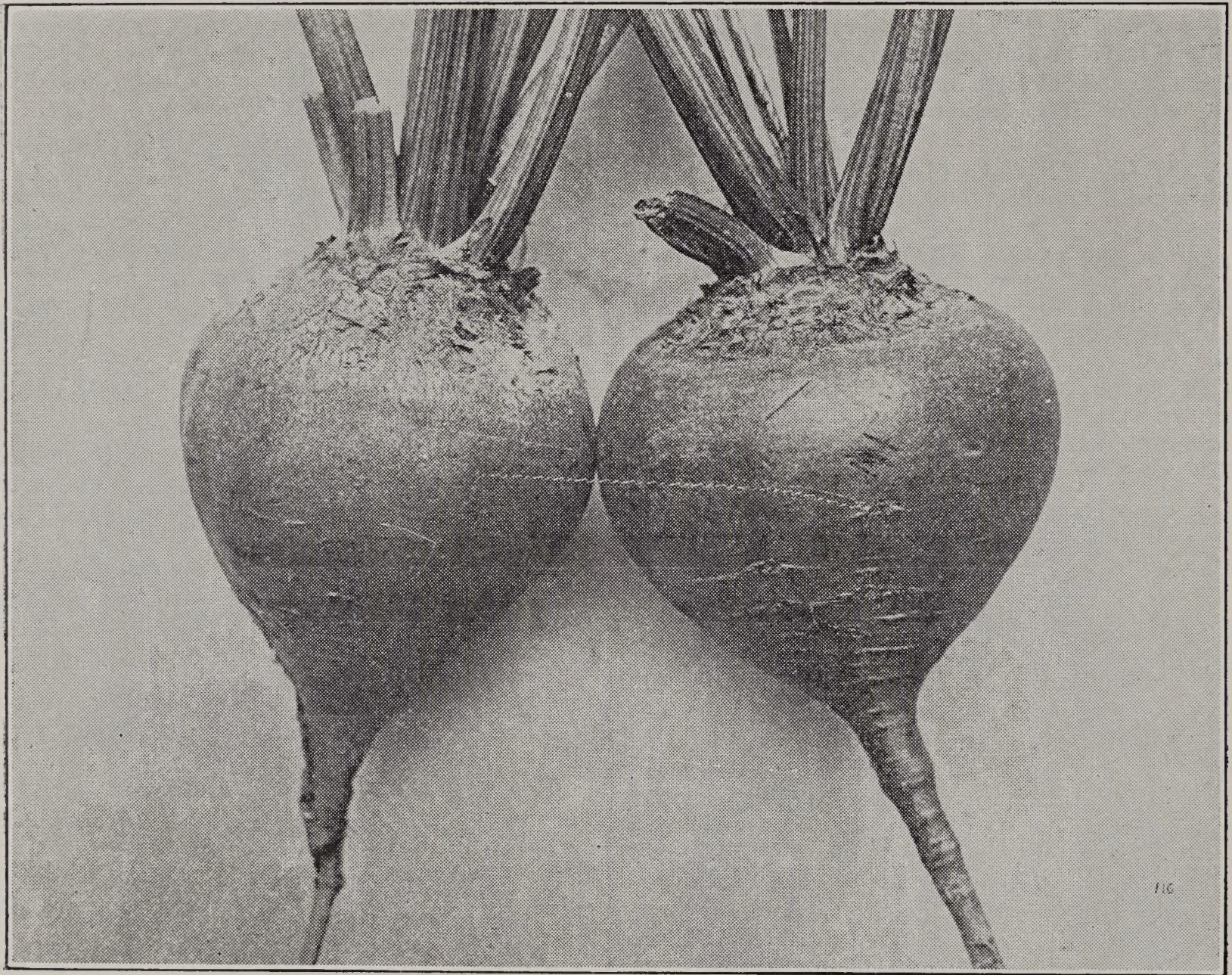
tinue to grow and set pods until frost. Pods are short and contain two or four beans which are of fine quality, either green shelled or dry. Seeds small.

BUSH LIMA (BURPEE'S)—The bushes grow from 18 to 20 inches high, of stout growth and always erect. It is an immense yielder, each bush bearing from 50 to 200 large, handsome pods, well filled with very large beans.

BUSH LIMA (FORDHOOK) — A stiff, strong grower and very heavy cropper. The pods are produced in clusters. Four to six days earlier than others. Bean is tender, sweet and juicy, either green or dry.

JACKSON WONDERS (Speckled Bush)—Flourishes under dry conditions and is deservedly popular in the south. Pods are medium-sized, holding four or five fairly large beans of excellent quality.

BEETS



Detroit Dark Red

TABLE BEETS

CULTURE—Require a well manured sandy loam. Sow in rows early in May about 18 inches apart and $\frac{1}{2}$ to 1 inch deep. For winter use, sow in June. One ounce sows 50 feet of drill; 5 to 6 pounds to the acre. Thin to 6 inches apart when a few inches high.

WONDER—Earliest of the list. Roots are globe shaped with small top. Skin is a deep red and flesh also has a rich dark color.

EARLY BLOOD TURNIP—Roots are dark red and nearly round, having a fine flavor. Valuable for general market or home garden. An old popular sort.

ECLIPSE BLOOD TURNIP — Produces globe shaped roots of rosy red, sweet and tender, within 65 days from planting. Does not grow large and is much used for bunching.

CROSBY'S EGYPTIAN — An extra-quick grower. The flat, smooth, turnip-shaped roots average 2 inches in diameter, and are dark red, zoned lighter. Fine for table use and canning and largely planted for home and market. The tops are small.

DETROIT DARK RED—One of the best main varieties for home or market garden. Roots of medium size, globe-shaped and very smooth; skin dark red, flesh solid vermilion red. Tops small, upright, dark green, shaded red.

EXTRA EARLY EGYPTIAN—Flat, matures very early, with small tops and flat dark red roots, good forcing beet.

LONG DARK BLOOD—Keeps well through the winter. The roots, which measure 1 to $1\frac{1}{4}$ feet, grow one-third out of the ground. The leaves are green veined with red and the

flesh deep red. A good variety for fall and winter use.

GIANT SWISS CHARD or SPINACH BEET—This variety does not produce an edible root like the regular garden beet, but is esteemed for the broad, white leaf stalks, which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach and considered equally palatable.

GIANT LUCULLUS—Produces white thick stalks in 53 days. Tops cook up very much like spinach, while the stems cooked taste very much like celery or asparagus.

FRENCH DARK GREEN (Silver Leaf)—Grows about 24 inches tall and produces large and upright leaves ready for use in about 50 days and afterwards until frost. The center stem of each leaf is large and nearly white. The leaf part may be cooked like spinach or turnip greens.

MANGEL-WURZEL AND SUGAR BEETS

CULTURE—The following varieties are extensively grown for feeding stock, and are excellent food to increase the flow of milk. As they grow much larger than the varieties cultivated for table use, they require more room, and should be sown in drills about 2 feet apart.

The seeds should be dropped about 2 inches apart in the drills, and when strong enough, thinned out to 12 to 15 inches in the row. The long varieties are best suited to a deep soil, and the globe sorts succeed better than the long sorts on sandy soil. When drilled 6 pounds of seed will sow an acre.

GIANT HALF SUGAR ROSE (Feeding Sugar)—A most valuable, large yielding variety for feeding; roots oval-shaped; skin rose colored, flesh white. Has a larger sugar content and feeding value than most beets of its class.

GOLDEN TANKARD—A smooth, yellow-fleshed mangel; yields large crops on good land and is easily harvested. The roots are heavy and solid, of a typical tankard shape. The flesh is firm and the roots are excellent keepers. Extensively grown for stock feeding.

LONG RED MAMMOTH—An old, popular sort. This is the heaviest cropping and largest of all mangels. The roots grow half to two-thirds above the surface and are frequently 2 feet or more in length by 6 inches in diameter. Skin bright red; flesh white, veined pink.

KLEIN WANZLEBEN SUGAR—The roots are 7 to 8 inches long. They can be grown as close as 5 inches apart in the row and 2 feet between the rows. An enormous yielder, grown extensively for sugar.



Copenhagen

CABBAGE

CULTURE—Select a moist, heavy, rich soil for cabbage. For winter crops, sow in the

middle spring and transplant to the field when 4 to 6 inches high in rows 2 feet apart. The early varieties should be sown in hot-bed or box in the house about 6 weeks before the

plants are to be set out. When the soil is suitable in the spring, transplant to the field in rows 2 feet each way. Cultivate early and often. Half pound of seed will produce sufficient plants for one acre.

EARLIEST SORTS

EARLY WINNINGSTADT—Heads are hard and pointed. Is quite early with thick dark green leaves; a desirable sort. **71 DAYS**

EARLY JERSEY WAKEFIELD—Considered by many expert gardeners the best of the early varieties, being grown for home use and shipping. Its outstanding merits are large pointed heads, small outside foliage and very sweet. **62 DAYS**

EARLY CHARLESTON LARGE WAKEFIELD—Similar to Jersey Wakefield, but a week later, somewhat larger with blunt pointed heads. **71 DAYS**

COPENHAGEN MARKET—Introduced only recently, has become a general favorite, because of its excellent quality. Of the flat-headed cabbages, this is the earliest. Is compact in growth, with short stem and few outer leaves. Heads average about 10 pounds each, are hard and solid. Our strain insures uniform heads. **66 DAYS**

SECOND EARLY SORTS

EARLY DWARF FLAT DUTCH—An old, standard sort, valued for its fine large solid flat heads, which are fine grained and tender. **71 DAYS**

ALL HEAD EARLY—Grows unusually large flat heads for such an early sort. Heads are solid and uniform. **77 DAYS**

GLORY OF ENKHUIZEN—This new introduction from Holland is valued on account of its solid, compact, round heads of fine flavor. A splendid cabbage for early use and winter storage. **75 DAYS**

DRUMHEAD EARLY—Heads are large, flat, solid and of choice quality. Is one of the finest short stemmed cabbages and popular in the home garden. **71 DAYS**

ALL SEASON—Is a leading variety for the home garden, also good kraut sort. Heads are large, nearly round, solid and of fine quality. Stands hot seasons remarkably well. **90 DAYS**

LATE OR WINTER SORTS

SUREHEAD—For main crop or home garden, this variety is equally valuable. Extra hard, large, weighing 10 to 15 pounds each, round flattened heads, has established Surehead as a favorite kind. **115 DAYS**

PREMIUM FLAT DUTCH—Ours is an improved strain, growing large flattened solid heads, considered the standard late variety for shipping or home use. **115 DAYS**

LARGE LATE DRUMHEAD—Grows flat, large, solid heads, fine for winter storage. **115 DAYS**

HOLLANDER or EUROPE BALLHEAD—**105 DAYS**
Our seed is produced in Europe from selected heads. No cabbage is more widely grown for winter storage. Heads are round, solid, leaves crisp and tender. Withstands rot and unfavorable seasons.

MAMMOTH ROCK RED—By far the largest and surest heading of the red sorts. Used for slaw and pickling. **95 DAYS**

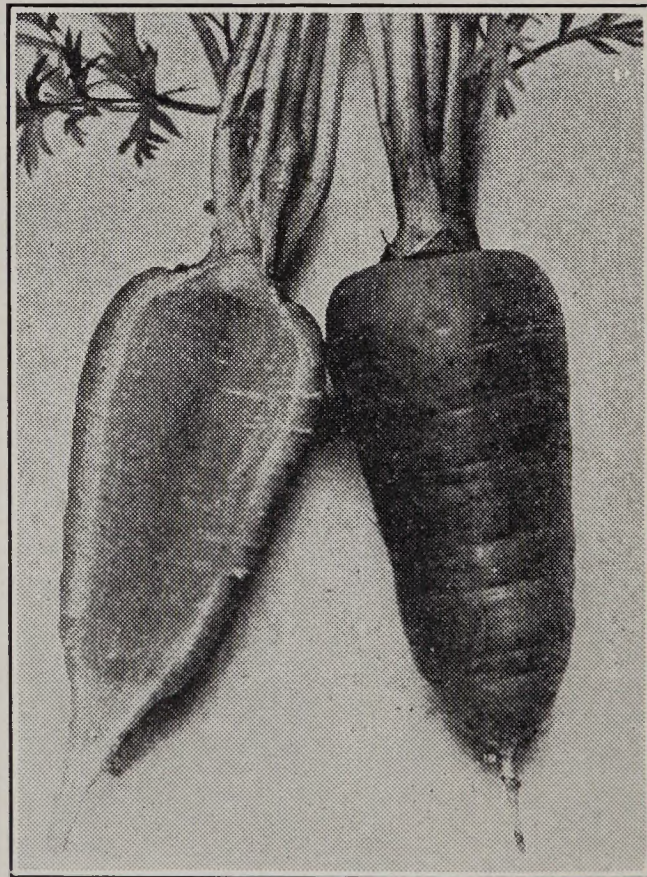
CHINESE or CELERY CABBAGE—A most delectable vegetable resembling Cos lettuce when full grown. Is eaten raw or cooked. Retains its crispness and flavor longer than lettuce. This is one of the main ingredients in chop suey. Plant like late cabbage in July, in drills 18 inches apart. Its cooked flavor is much like asparagus.

(Note—We can furnish either Wong Bok or Pe Tsai strains.)

CARROT

CULTURE—Carrots are easily grown, especially fine for soups and stews. Should be planted in every garden. To grow Carrots to the best advantage, a pulverized enriched soil is required. Sow in the garden for table use in rows 16 to 18 inches apart. For field planting, sow in drills 3½ feet apart, using 3 pounds of seed to the acre. One ounce will sow 100 feet of drill. Cover ½ to 1 inch deep and when up, thin to 4 inches.

DANVERS HALF LONG—We recommend this kind as best adapted for all purposes. Tops are medium size with thick roots, 6 inches in length, stump rooted. Flesh is a rich orange, tender and desirable. **75 DAYS**



Danvers

OXHEART or GUERANDE—Valuable when young for table use and later for stock feeding. Has very thick roots, about 5 inches long. Color is a bright orange and quality sweet and tasty. Grows well in poorer soils. **75 DAYS**

CHANTENAY or MODEL—^{68 DAYS}Characterized by its great productivity and fine grained sweet orange flesh. It grows a 5-inch root about 3 inches in diameter.

Can also supply the Red Cored strain, popular with canners and gardeners, with roots somewhat shorter than standard Chantenay.

IMPERATOR—A splendid new sort, grows roots 7 to 8 inches long and about 2 inches in diameter, maturing 77 days from planting. Has a red orange color, fine grained and tender.

^{85 DAYS}**LONG ORANGE**—This is a distinctive sort, with its roots often 12 inches in length and 3 inches at the crown, its large tops and its tender deep orange flesh. Desirable both for the table and for stock feeding.

^{63 DAYS}**SCARLET HORN or SHORTHORN**—Fine for market or home garden. Roots measure 1½ inches in diameter and 3 inches long. Flesh is deep orange, rich and fine grained.

^{68 DAYS}**NANTES**—Roots bright orange, 1¼ inches thick and 7 inches long. Useful for both market and home gardens.

^{100 DAYS}**LARGE WHITE BELGIAN**—Grows one-third or more out of ground. The roots attain a length of a foot or more and average about 2 inches in diameter. The coarse flesh, and also the skin, is pure white, with an occasional tinge of green where growing above soil. One of the best varieties for stock feeding.

^{100 DAYS}**LARGE YELLOW BELGIAN**—Like the preceding in every respect but flesh and skin pale orange.

CAULIFLOWER

CULTURE—Deserves a more prominent place in the home-garden. Can be successfully grown by the amateur gardener. Sown much in hot-bed for early crop, transplant to cold frame, then to open ground as soon as frost danger is past. For late crop, give cauliflower same culture as cabbage. One ounce will produce about 3,000 plants.

^{57 DAYS}**EARLY DWARF ERFURT**—Produces excellent, solid pure white heads often 6 to 8 inches in diameter.

^{52 DAYS}**EARLY SNOWBALL**—Is most popular general sort. Produces medium sized heads, compact, round, very white, with short outside leaves. Our stock is select European grown.

^{65 DAYS}**DANISH DRY WEATHER**—About one week earlier than Snowball. Has large white heads. Adapted for growing in dry sections. Stands hot weather. Popular in the west.

CELERY

CULTURE—For the earliest crop the seed should be sown in a hot-bed during February or March. When the young plants are large enough and the trees are out in leaf, they are transplanted into the open. For the fall or

main crop seed may be sown in the open ground as early in the spring as the soil can be worked into good condition, and the plants should be set in the rows in July.

Celery requires a rich, well-manured soil, and plenty of moisture so that it can make a continuous growth. One ounce is sufficient for 600 feet of drill. One ounce sown in the seed-flat gives 8,000 to 10,000 plants; 2 ounces for one acre.

GIANT PASCAL—This celery has the sweet, nutty flavor of Golden Self Blanching. The stalks are about two feet high; thick, solid and stringless, and as brittle as glass. Matures in 140 days. It blanches easily and is an elegant winter keeper for home or market.

GOLDEN YELLOW SELF-BLANCHING—This splendid variety is without doubt the most popular celery grown. It is a self-blanching sort, for with a little banking or covering, even the outer ribs assume a beautiful golden yellow, while the heart or vine stalks are deliciously tender, brittle and sweet. This variety is being very extensively grown both for market and private use. The hearts are large and solid, blanching a beautiful waxen yellow. It is tender and sweet.

WHITE PLUME—This is the earliest and most easily blanched celery in cultivation. The plants grow rapidly and blanch easily during the summer months. The foliage is an attractive light green color and the stalks are pure white. Crisp and nutty. An excellent home garden and early market sort.

CELERIAC

—Sow seed same as celery. Transplant in rows 2 feet apart, 9 inches apart in a row. Thorough cultivation is necessary to secure good roots. Earthing up is not necessary. Roots may be cooked or used as a salad.

LARGE SMOOTH PRAGUE—A very large and smooth variety, free from side roots.

CHICORY

CULTURE—Sow in drills half an inch deep, in rich, mellow soil; the after culture being the same as recommended for carrots.

LARGE ROOTED or COFFEE—Roots of fine form, the chicory of commerce, used to adulterate coffee.

COLLARDS

A tall, loose leaved cabbage-like or kale-like plant grown throughout the South. It is extensively used for the table and for stock in the South, where it continues in growth and is usable throughout the entire winter. Collards usually succeed in locations where cabbage cannot be grown to perfection.

GEORGIA or CREOLE—This is the widest-stemmed variety, growing 2 or 3 feet high and forming a large, loose, open head or cluster of leaves with a rather long stem. A frost, if not too severe, will improve rather than injure the quality of the leaves. Sow thickly in drills where the plants are to remain and when well started thin to 2 or 3 feet apart in the row.

CORN SALAD

FETTICUS or LAMB'S LETTUCE

CULTURE—For winter use sow shallow in rows 1 foot apart during August or September. The plants are ready for use in six or eight weeks. When winter approaches give them a very light covering of hay or straw. The plants are hardy and will remain green and fit for use all winter. The seed may also be sown early in spring.

CRESS

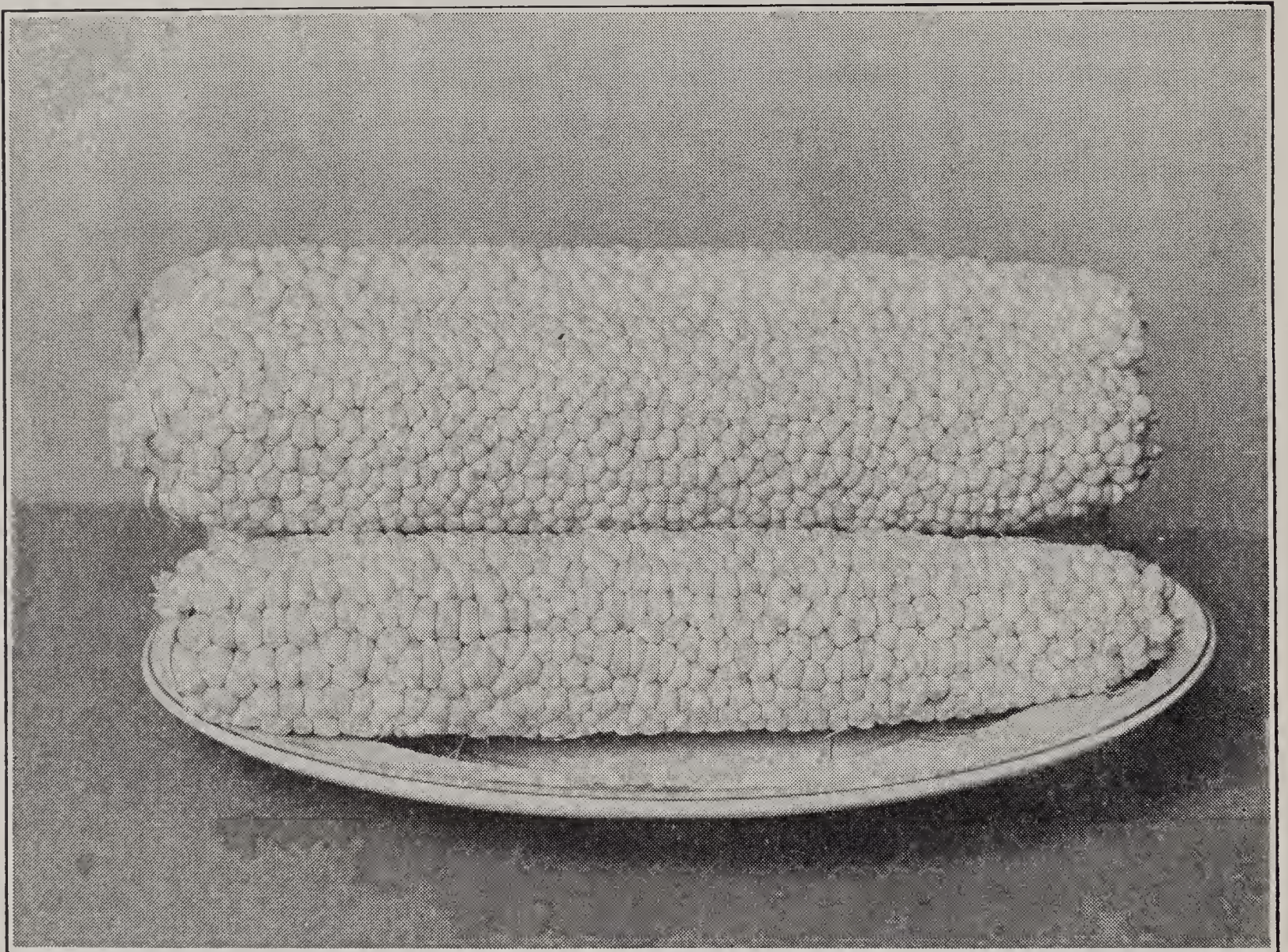
CURLED, or PEPPER GRASS—This is much used with lettuce, to the flavor of which

its warm, pungent taste makes a most agreeable addition. Sow thickly in drills 16 inches apart.

SWEET CORN

A steady supply during the season of tender, delicious, sweet corn should be on every table.

CULTURE — Good ordinary soil, well worked, is the first requirement. Plant as soon as frost danger is over, about last of April, in rows 3 feet apart, and, if in hills, the same distance apart in the row, using 4 to 6 kernels to a hill. Cover 1 to 1½ inches deep. Cultivate shallow, but often until the tassels show. One pound will plant 275 hills, 15 pounds will plant one acre in hills.



Country Gentleman

EARLY AND MEDIUM EARLY SORTS

ADAMS EXTRA EARLY—Is good, very early, table corn, but not a sugar corn. Produces tender ears, sixty days from planting.

EARLY MINNESOTA—One of the best kinds for the early garden. Stalks are about 6 feet long, with one or two ears, having 8 to 10 rows of large white grains. Good for market and canning.

EARLY EVERGREEN—Ears 7 inches long and 2½ inches thick, 14 to 18 rows of sweet delicious white kernels. Matures ten days earlier than Stowell's Evergreen, which it resembles.

83 DAYS

GOLDEN BANTAM—The ears are small (about 5 inches) and the grains cream-yellow in color, but the delicious flavor and the tender quality when cooked is not surpassed by any other variety of Sweet Corn, and is fast making it one of the most popular for the home and market garden. The plants are dwarf, attaining a height of 3 to 4 feet and bearing two or more ears to the stalk. Seed golden yellow, short, round.

GOLDEN BANTAM 12-ROWED—Can also supply the improved strain, a selection from the old Golden Bantam with larger ear and greater productivity. Desirable for canners and market gardeners.

GOLDEN GIANT—Is a cross between Golden Bantam and Howling Mob, suitable for

both home and market use. Ears are 12 to 16 rowed with golden yellow kernels.

BANTAM EVERGREEN (Golden)—Has all the splendid qualities of both Stowell's Evergreen and Golden Bantam, of which it is a cross. Ears 8 inches long, with 14 to 18 rows of delicious golden kernels.

HOWLING MOB—So named, because when introduced, there was a clamorous demand in the market for this early, tender, delicious sort. Ears measure 7 to 9 inches, with 12 to 14 rows of pearly white grains.

EARLY MAYFLOWER—Is an improved selection of the old white Cory, very popular in eastern markets. Plants are 4 to 5 feet high, bearing two ears six to seven inches long and 12-rowed. Is sweet and tender.

MAIN CROP SORTS

STOWELL'S EVERGREEN—More largely planted than any other Sweet Corn, for home use, market, and canning. The long slender grains are of good size. The ears are large and very freely produced. Seed white, long, large.

COUNTRY GENTLEMAN (Shoe Peg)—Late. The ears are good size (7 to 9 inches long), and the cob is small, densely covered to the very tip with irregular rows of very long, tender, white kernels of delicious flavor when cooked. Stalks average 7 feet in height and frequently yield three ears each.

POP CORN

CULTURE—The seed should be sown in rows 3 feet apart, about the time beans can be planted. Cover the seed 2 to 3 inches deep with fine soil, and thin the plants to stand 10 to 12 inches apart in the row. The ears should be allowed to dry out very thoroughly, as otherwise the seeds will not pop properly. One ounce will sow 40 feet of row; 4 pounds per acre in hills.

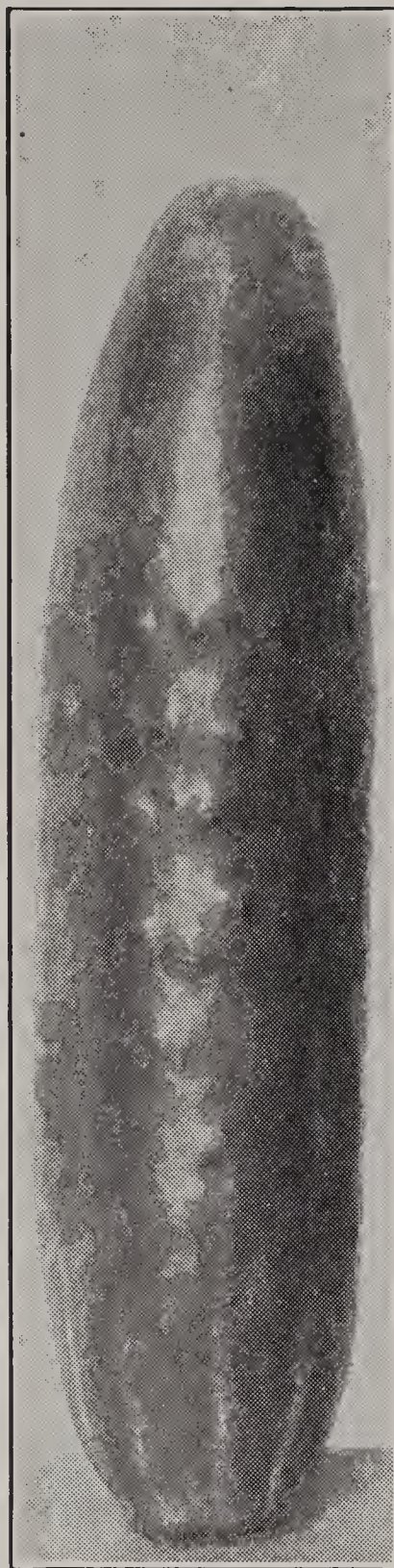
WHITE RICE—Bears 3 or 4 small, but attractive ears on a stalk. The pearly white grains are pointed, resembling rice kernels in shape.

QUEEN'S GOLDEN—The stalks grow 6 feet tall, with large ears produced in abundance. It pops perfectly white.

SOUTH AMERICAN—Giant or Dynamite, is an attractive new golden variety which pops large beautiful white kernels.

CUCUMBER

CULTURE—Requires warm, rich soil. Plant seed about one-inch deep in hills 4 feet apart, dropping 10 to 15 seeds in a hill. When plants are up, thin to 3 or 4 to hill. Give them frequent but shallow cultivation, until the runners prevent. Pick the fruit when large enough for use, as vines will cease setting fruit when seeds begin to mature. Two pounds will plant an acre.



Long Green

BOSTON PICKLING or **GREEN PROLIFIC**—The standard pickling variety. The vines yield heavily, and if fruits are picked as soon as large enough, they will continue to bear through long season. The fruits reach a length of 5 to 6 inches and are excellent for slicing, but they are more popular as a pickling variety.

CHICAGO or **WESTERFIELD PICKLING**—Matures in 60 days fruit 6 to 7 inches long, 2 3/4 inches thick. The fruits of this very desirable sort are of medium length, tapering at each end with very large and prominent spines. The color is deep green. This is a very prolific variety and one of the best for those who want crisp, coarsely spined pickles.

NATIONAL PICKLING—Largely bred for the pickling factories using small sizes. Makes deep green firm crisp pickles.

IMPROVED LONG GREEN—Perhaps the best known and desirable sort for all purposes. Grows well shaped small pickles, and, if allowed to develop to the slicing state, is most attractive. The fruits grow from 10 to 12 inches in length.

ROYAL WHITE SPINE—One of the earliest and very productive. Fruit quite uniform;

EARLY CLUSTER — Matures black-spined fruits, 5 1/2 inches long and 2 1/2 inches thick. Is very early and prolific, bearing fruits in clusters. Fruit is bright green, edible in 52 days. A fine pickler.

EARLY SHORT GREEN or **EARLY FRAME**, 55 Days—Matures black-spined fruits, 7 inches long and 2 1/2 inches thick in 55 days. Recommended for second crop of pickles and for slicing. Produces short, bright green fruits, both crisp and tender.

EARLY FORTUNE—Grows 8 to 9 inches long and 2 1/2 inches thick in 65 days. A fine variety of White Spine type. The fruit is of uniform size and shape and is of very firm texture, thus permitting long-distance shipping. The skin, which is dark green, holds its color remarkably well and therefore remains in slicing condition longer than some of the older standard sorts.

about 7 inches long and well rounded at both ends; of bright green color. Used for early slicing and when planted late it produces good pickles.

DAVIS' PERFECT—The fruits measure from 7 to 9 inches in length and their circumference is about 7 inches in the middle. They are slightly tapering at both ends, with a very rich dark green skin. The fruits are extremely handsome and sell very readily in the markets. The flesh is solid and of superb quality for slicing.

WEST INDIA GHERKIN—A very prolific, small-fruited variety, used exclusively for pickling. The fruits are 2 to 3 inches in length, thick and rounded, closely covered with spines. It yields abundantly.

JAPANESE CLIMBING—A vigorous grower, can be trained on trellis. Fruit from 12 to 16 inches long, dark green and smooth. Flesh pure white, crisp and tender.

(Note—There are several other Gardener varieties of Cucumber, varying somewhat from kinds described. Can furnish upon application.)

EGG PLANT

CULTURE—The Egg Plant will thrive in any good garden soil. The seeds should be sown in hot-bed or warm greenhouse in March or April, and when about an inch high, potted in 2-inch pots. Plant out about June 1, 2½ feet apart. If no hot-bed is at hand, they can be grown in any light room where the temperature will average 75 degrees. One ounce for 2,000 plants.

BLACK BEAUTY—Earlier and nearly as large as New York Purple; fruit very dark purple, which color it holds for a long time.

NEW YORK IMPROVED PURPLE (Spineless)—The favorite market variety. Plant large, spreading and spineless, producing four to six large oval fruits of dark purple color.

ENDIVE

CULTURE—Endive is one of the best salads for fall and winter use. Sow for an early supply about the middle of April. As it is used mostly in the fall months, the main sowings are made in June and July. Plant 1 foot apart each way. When the plant has attained its full size, gather up the leaves and tie them by their tips in a conical form. This excludes the light and air from the inner leaves, which, in the course of from three to six weeks, become blanched. One ounce will sow 300 feet of drill.

BROAD LEAVED BATAVIAN—One of the best varieties for salads; leaves broad, twisted and waved, bright deep green, with a nearly white midrib. Inner leaves form a fair head which blanches a creamy white.

GREEN CURLED WINTER—The most hardy and vigorous sort; leaves bright, deep green with the outer midribs usually showing a trace of rose; readily blanches a creamy white.

GOURDS

CULTURE—Gourds are tender annuals, and should not be planted until all danger of frost is over, and not less than 6 feet apart each way, in good, rich loam. One ounce will plant 25 hills.

DIPPER—Grows in the form of a dipper and thus is useful as well as ornamental.

DISH CLOTH—The peculiar interior is used as a sponge or dishcloth.

FANCY VARIETIES MIXED—A collection of the fancy and ornamental gourds.

JAPANESE NEST EGG—Fruit small and creamy white, much resembling a hen's egg.

SUGAR TROUGH—Grows to hold from 5 to 10 gallons and makes useful household containers.

HERBS

SWEET, POT AND MEDICINAL

CULTURE—The seeds should be sown in spring, in shallow drills, 12 inches apart, and the young plants thinned out or transplanted to about 4 inches. They should be harvested on a dry day, just before the blossom develops, dried quickly and bottled, or closely packed in dry boxes, with the air entirely excluded.

ANISE—Used for flavoring.

BALM—Very fragrant leaves.

BASIL, SWEET—Leaves useful for flavoring.

BORAGE—Leaves used for flavoring.

CARAWAY—Seeds used for flavoring.

CATNIP—Leaves used for seasoning.

CORIANDER—Seeds used for flavoring.

DILL—Used for flavoring pickles.

FENNEL, FLORENCE—A bulb-like vegetable formed above ground at base of leaf-stalk.

FENNEL, SWEET—Seeds aromatic.

HOREHOUND—Very useful for curing coughs.

LAVENDER—Leaves very fragrant.

MARJORAM, SWEET—Used as a seasoning.

ROSEMARY—Leaves very fragrant.

RUE—A medicinal plant.

SAFFRON—Flowers used for coloring; leaves for flavoring.

SAGE—A highly aromatic herb; most useful of all.

SAVORY, SUMMER—Leaves for flavoring soups.

SAVORY, WINTER—Leaves for seasoning.

THYME—Used for seasoning.

WORMWOOD—Has medicinal qualities; splendid for poultry.

KALE OR BORECOLE

CULTURE—Belongs to the cabbage family. Makes fine greens. Plant in May or June in the same way as cabbage. One ounce will produce about 2,500 plants.

DWARF GREEN CURLED—Is fine curled dwarf sort, with bright green foliage, bears parsley like leaves used for greens and garnishing.

TALL GREEN CURLED SCOTCH—Grows 2 to 3 feet high, bearing curled light green leaves. Is hardy and improved by frost. Much used for greens.

KOHL RABI

(Turnip-Rooted Cabbage)

CULTURE—Combines the flavor of both cabbage and turnip. Sow in rich soil, in rows

18 inches apart and thin to 6 inches apart in the rows. One ounce will sow 300 feet of drill.

EARLY WHITE VIENNA—Has small tops, medium white bulbs of choice quality.

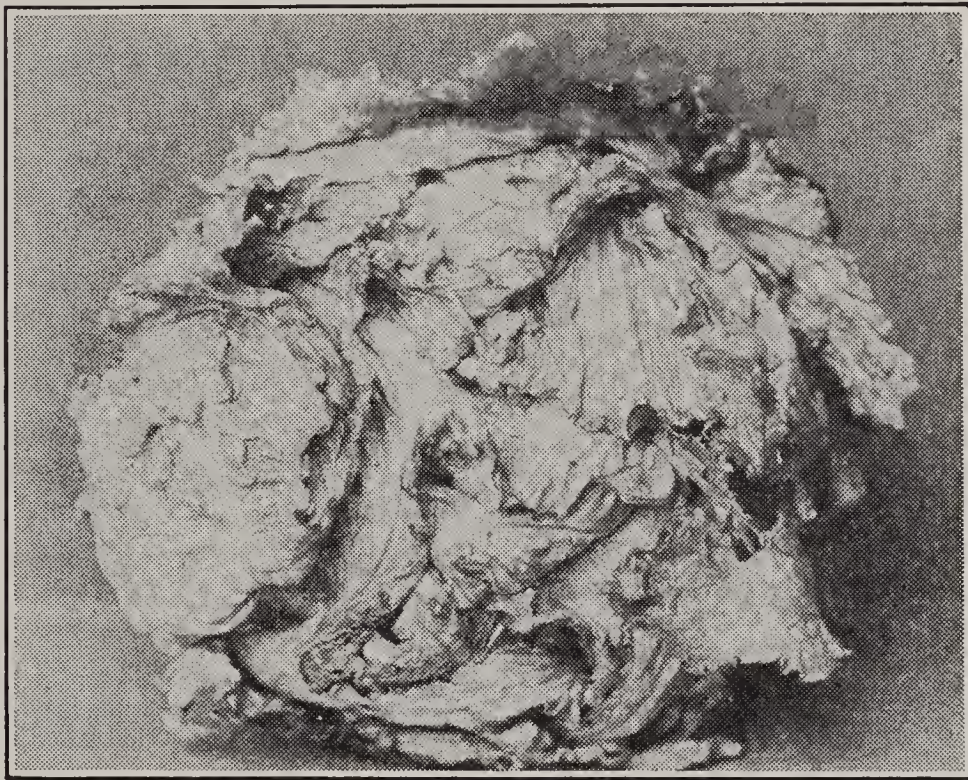
EARLY PURPLE VIENNA—The bulbs are purple with white flesh. Valuable for forcing or for outdoor planting.

LEEK

CULTURE—Sow as early in the spring as practicable, in drills 1 inch deep and 1 foot apart. When 6 or 8 inches high, transplant in rows 10 inches apart each way, as deep as possible, that the neck, being covered, may be blanched. One ounce will plant 200 feet of drill.

LONDON FLAG—The oldest and best known variety; hardy and productive.

LETTUCE



Hanson

CULTURE—Lettuce is easily grown, but needs cool weather and plenty of moisture. Sow outdoors as early as the ground is workable in rows 18 inches apart and thin to 12 inches apart in the rows. For winter use, may be sown in hot-beds. Two ounces will sow 150 feet of row; 4 pounds required per acre.

CABBAGE OR HEADING VARIETIES

HANSON—None more reliable for outdoor cultivation. Heads grow to a remarkable size, resembling that of a flat cabbage. Outer leaves are bright green and beautifully frilled on the edges; inner leaves white and deliciously sweet, tender and crisp.

82 DAYS

BIG BOSTON—If enormous size, heads 10 to 12 inches across, with a tightly folded heart of blanched, juicy, buttery leaves is desired, select Big Boston. Is extensively used by gardeners and shippers everywhere.

76 DAYS

NEW YORK or WONDERFUL—This splendid mammoth-heading and long-keeping variety has been grown to weigh six pounds to the head; frequently weighs two to three pounds. Heart is solid, of light green color, very sweet, tender and crisp. Long-standing; perfect heads may be cut from the same bed for many weeks. This lettuce is grown in large quantities on the Pacific Coast and shipped all over the country. It is wrongly called Iceberg by produce dealers, which variety is different and listed below. Can also supply other strains of New York as No. 12, and the different Imperial strains of the New York type for market gardener trade.

82 DAYS

ICEBERG—Fine for home gardens but not so good for shipping on account of its tender head and thin leaves. Grows very large head somewhat crumpled, white inside, very sweet and crisp.

DENVER MARKET—The well known standard crisp head, medium-sized type, bearing light green leaves, very much crumpled.

The young heads are pointed but grow more nearly round when mature.

CURLED or LOOSE-LEAVED VARIETIES

GRAND RAPIDS—As a lettuce for home gardens, greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, hardy, little liable to rot and remaining in condition several days after being fit to cut. The plant is upright and forms a loose cluster of large, thin, bright green leaves, savoyed, finely crimped at edges. The leaves do not wilt quickly after cutting so that the variety will stand shipping long distances.

EARLY CURLED SIMPSON or SILESIA—Is widely known and an old time favorite variety, the most popular loose leaved sort. Heads are a handsome green.

EARLY PRIZE HEAD—The plants are medium large, and are composed of many curly leaves. The foliage is bright green, shaded with light brown. This is one of the best home garden varieties, as it grows quickly and makes a lot of good eating leaves which are of remarkably good flavor. It is strictly non-heading and of excellent flavor.

BLACK SEEDED SIMPSON—A standard variety for forcing and early outdoor culture. It forms large, loose clusters of leaves of light yellowish green color; the leaves are large, thin, very tender, slightly ruffled and blistered; the inner ones nicely blanched, and even the large outside leaves are tender and of good quality.

TRIANON or ROMAINE—This variety is the finest of the Cos or blanching sorts. The long, narrow leaves form solid heads, blanch and become snowy white. Excels in quality and crispness. The leaves, when blanched, are stiff like celery, and can be eaten in the same manner.

MUSKMELON

CULTURE—Because of their high sugar content, muskmelons are one of the most delicious vegetables. They require a rich warm sandy loam. Sow 8 to 10 seeds in hills four feet apart each way, enriching the hills with a shovelful of old manure. Plant after the soil is warm, 1 ounce of seed for 50 hills, 3 to 5 pounds to the acre.

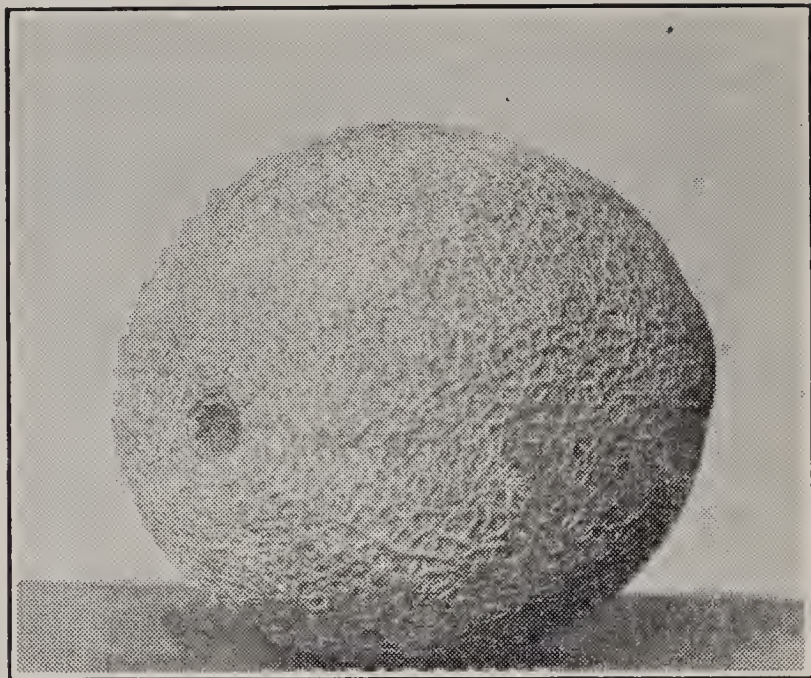
ROCKY FORD CANTALOUPE

ROCKY FORD or NETTED GEM, 92 Days—Our strain of this variety is grown for us at Rocky Ford, Colo. Melons are somewhat oval shape, finely netted with light green flesh tinged with golden yellow, ripening close to the rind. Sweet and delicious. Edible in 92 days. Weight 2½ pounds.

EDEN GEM—Sometimes called Gold Rined Rocky Ford; has green flesh tinted salmon in the center; splendid quality.

POLLOCK'S No. 10-25—Is identical with the ROCKY FORD, except the flesh is salmon tinted in place of green. Its outstanding characteristics are heavy netting, uniformity, earliness and resistance to rust. This is the

strain much used in the shipping districts of Colorado and California. Edible in 98 days. Weight 2½ pounds.



Rocky Ford

PERFECTO, 90 Days—Is recommended as one of the best of the new types of Rocky Fords. One grower says of it: Fruit very uniform in size, nearly round, and densely covered with a hard gray netting; flesh very thick and of a beautiful salmon color, shading into green as it nears the rind. Recommended for its excellent eating and shipping qualities.

HEARTS OF GOLD—Our strain is larger than the older Hoodo type of Rocky Fords. Fruits are uniform shape and weigh about 2 pounds. It truly has a "Heart of Gold," with delicious flesh of a deep salmon shade.

HALES BEST, 86 Days—This is the variety often seen in your grocery store. Fruits are oval, 6½ inches long by 5½ inches in diameter, heavily netted in distinct ribs. Flesh is salmon, very sweet and delicious.

KNIGHT—Popular with market gardeners as a first early sort. Weighs about 2 pounds with deep green skin changing to golden yellow at maturity and heavily netted.

BURRELL GEM or DEFENDER—The fruits are 6 to 7 inches long by 4½ to 5 inches in diameter, rather sharply sloping at the ends. Well ribbed and covered with a fine grayish netting. The skin is a rich dark green, contrasting strongly with the deep salmon-pink flesh; sweet and tender. The flesh is thick and firm, ripening close to the skin.

STANDARD SELECTED SORTS

EARLY HACKENSACK—A large round melon, very early and of high quality. The flesh is green and deep. The rind heavily netted and ribbed. This variety is about ten days earlier than the regular type of Hackensack.

HACKENSACK—A large type used for home gardens; often weighs 7 pounds; flesh is thick, juicy and sweet, green in color.

EMERALD GEM—Splendid size, color and flavor (Salmon flesh). This beautiful melon matures in 81 days. It is truly a gem. The ribs are marked, but the skin is smooth, of a deep emerald green color. The flesh is thick and firm, ripening almost to the rind.

JUMBO—A large, quality melon weighing 5 to 6 pounds. Desirable sort for home gardens.

OSAGE or MILLER'S CREAM—A medium to large sized, salmon fleshed melon of excellent quality. The vines are vigorous and productive. The fruits are oval, dark green in color, slightly ribbed and partly covered with shallow gray netting. The flesh is salmon colored, fine grained and highly flavored.

BANANA—Long fruits having a banana-like aroma. The fruits are from 15 to 20 inches in length, and from 4 to 6 inches in diameter. The salmon flesh is thick and delicious in flavor.

TIP TOP—So called because of its delightful eating qualities. Produces melons distinctly ribbed, only slightly netted, with pale green skin. Flesh is a deep salmon, sweet and spicy.

WINTER MELONS

HONEY DEW MELON (Green flesh) — Honey Dew is a new type of muskmelon, which grows uniform in size, about 6 inches in diam-

eter from top to bottom, and 7 or 8 inches long. The color is a dull white when ripe, having no netting. The rind, though thin, is very tough and so close that the excellent flesh is practically sealed up where it keeps in fine condition for several weeks after they are ripe. The flesh is a rich green color, very sweet and possesses a delightful flavor. Matures in 110 days.

GOLDEN BEAUTY CASABA—Often called Winter Muskmelon. It is extensively grown throughout the Southwest for shipping to our Eastern markets, and sold at very high prices during the fall. Matures in 110 days. The melons are nearly globular in shape, bright yellow with golden tint and wrinkled skin. Measures 6 to 8 inches in diameter. Flesh is white, thick, and delicious.

HONEY BALL — A cross between Honey Dew and Cannon Ball is a most delicious new variety. Is round and well netted with greenish flesh and small seed cavity. While very sweet, it retains the spiciness of the cantaloupe. Bound to be a popular sort.

WATERMELON

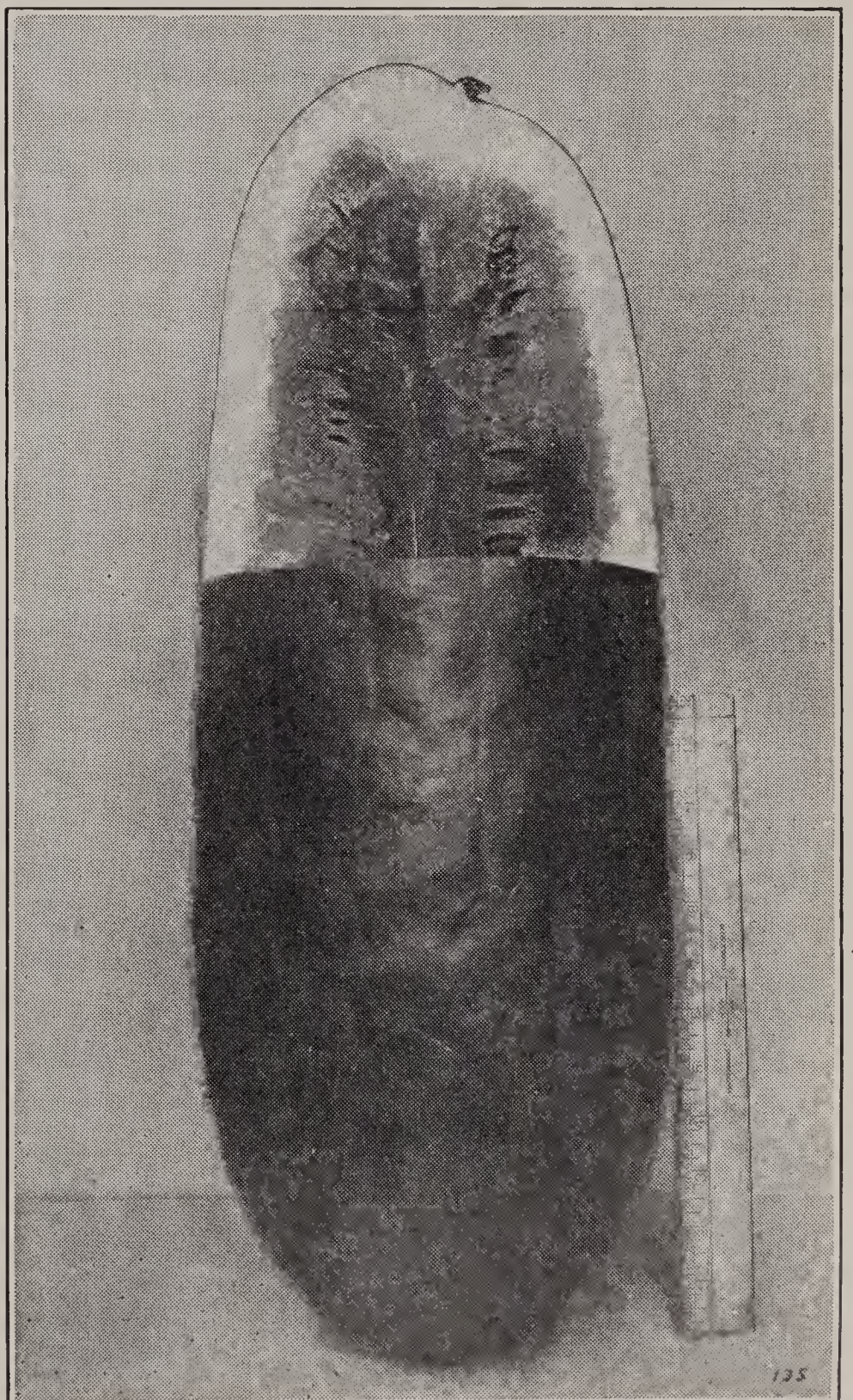
CULTURE—To cultivate good watermelons, plant in hills about 6 feet apart each way, and incorporate well-rotted manure thoroughly with the soil. Plant 8 to 10 seeds in a hill, when ground is dry and warm. When the plants are well up, thin out to 3 or 4 of the strongest plants in the hill. Sow 1 ounce to 25 hills; 5 pounds to the acre. Our seed is much superior to the ordinary stock offered.

FIVE GREAT GARDEN MELONS

KLECKLEY'S SWEET or MONTE CRISTO—None surpass this superfine sort for home use or closeby markets. Fruits are medium size, oblong and dark green in color. The flesh is a rich red; melting and sugary. Edible in 87 days. Size 10x22 inches.

HALBERT HONEY—Very similar to KLECKLEY'S SWEET in size and shape. Has beautiful bright red flesh of the most luscious honey-like flavor. Like its twin, KLECKLEY'S SWEET, does not ship well long distances. Weight 35 pounds. Edible in 87 days. Seeds, white, tipped with black.

TOM WATSON—Although the outside appearance is similar to KLECKLEY'S SWEET, our strain of WATSON has a tough elastic rind, weighs often 40 pounds and is a good shipper. Seed is white marked with brown. Meets the demand for a superior shipping and garden melon. Edible in 92 days.



Tom Watson

IRISH GRAY—Is a new sort of great merit, being large and long. The sparkling flesh is free from stringiness and sugary sweetness. The rind is a yellowish gray and tough enough to stand long distance shipping. Weighs 35 pounds, and edible in 90 days. Seeds are white.

STONE MOUNTAIN or DIXIE BELL—A new, valuable melon for both the home and market garden. Bears very large almost round fruits with blocky ends; is dark green with indistinct veins and a hard tough rind. The flesh is bright red, crisp, sweet and delicious.

WATERMELONS—Popular Varieties

ALABAMA SWEET—Produces large dark green melons netted with light green stripes. Flesh sweet. A good shipper. Average weight 30 pounds. Edible in 90 days.

CUBAN QUEEN—One of the old popular varieties and still much used. Is a round, slightly oblong melon, with green stripes, 30 pounds in weight, maturing in 90 days. A fine shipping melon.

CITRON—Fruits are round. Flesh is white, hard, used for preserves and pickles. A good keeper and very productive.

DIXIE QUEEN—Although a recent introduction, is fast becoming a leading commercial sort. Splendid for the home garden. Weighs about 30 pounds, almost round with squared ends and a thin and tough rind of light green with dark green strips. Flesh is tender and sweet.

EXCEL—A large dark green melon with slightly mottled stripe. Flesh is a deep red when ripe and of splendid quality.

FLORIDA FAVORITE—Popular in the south, being a splendid melon of large size and excellent quality. Rind is a mottled green. Matures in 87 days.

GYPSY or GEORGIA RATTLESNAKE—Our improved strain gives you a long, good sized melon, mottled dark green rind, with deep scarlet flesh, which is sweet and delicious. A good shipper. Matures in 80 days.

GRAY MONARCH or LONG LIGHT ICING—The mottled markings of this light green melon make it appear gray. Is a very large melon, sometimes very long, 30 to 50 pounds. Matures in 85 days.

KANSAS or RED RUSSIAN—Weighs about 30 pounds with a light green thin rind and bright, dark green irregular stripes. Flesh deep red with fine stripes; delightful flavor.

KOLB'S GEM—Weighs 30 to 50 pounds with bright red, tender, sweet flesh. Fruit round. A standard excellent selection.

SWEETHEART—Another old standby, and hard to beat. Oblong in shape, has a tough rind and makes a good shipper. Seeds are black. Flesh red, firm, melting and sweet.

WONDER—A new kind unsurpassed for home and nearby market. Flesh is crisp and tender.

MUSTARD

CULTURE—Plant in rows 12 to 18 inches apart; 1 ounce plants 100 feet of rows.

BLACK or BROWN—Considered more pungent than White English; leaves oblong, broad and cut; seed reddish-brown.

SOUTHERN GIANT CURLED—Plant vigorous and hardy, of upright, spreading growth; leaves large, light green, tinged yellow, much crumpled and frilled at the edges. The popular market variety in the South; seed small, dark reddish-brown.

WHITE ENGLISH—Plant of rapid upright growth, soon going to seed; leaves rather small and smooth, deeply cut or divided; color deep green; seed large, light yellow.

OSTRICH PLUME or FORDHOOK—Leaves are curled much like an ostrich plume, hence its name. Delicious for salads and fine for greens.

CHINESE—Has large thick crimped leaves, hardy and tasty. Grow to a length of 9 inches and is about 8 inches broad.

TENDER GREEN or MUSTARD SPINACH—A valuable addition for greens. (For home and market garden.) Grows rapidly, narrow, spoon-shaped leaves of dark green color.

ONION SEED

CULTURE—The Onion thrives best in a rather deep, rich, loamy soil, and unlike most vegetables, succeeds when cultivated on the same ground for successive years. Although onions are often raised from sets, but by far the best and cheapest mode of production is from seed. The facility with which seed is sown and the superior bulbs it produces, recommend it for general use.

As early in spring as ground can be worked, sow in rich soil, thoroughly pulverized and leveled, in rows twelve to fifteen inches apart, covering one-half inch deep. When the plants are well up, cultivate and keep free from weeds. The young plants may be thinned about one inch apart in the row. When grown for bunching, the rows can be made as close as ten inches.

THE THREE SOUTHPORT GLOBES

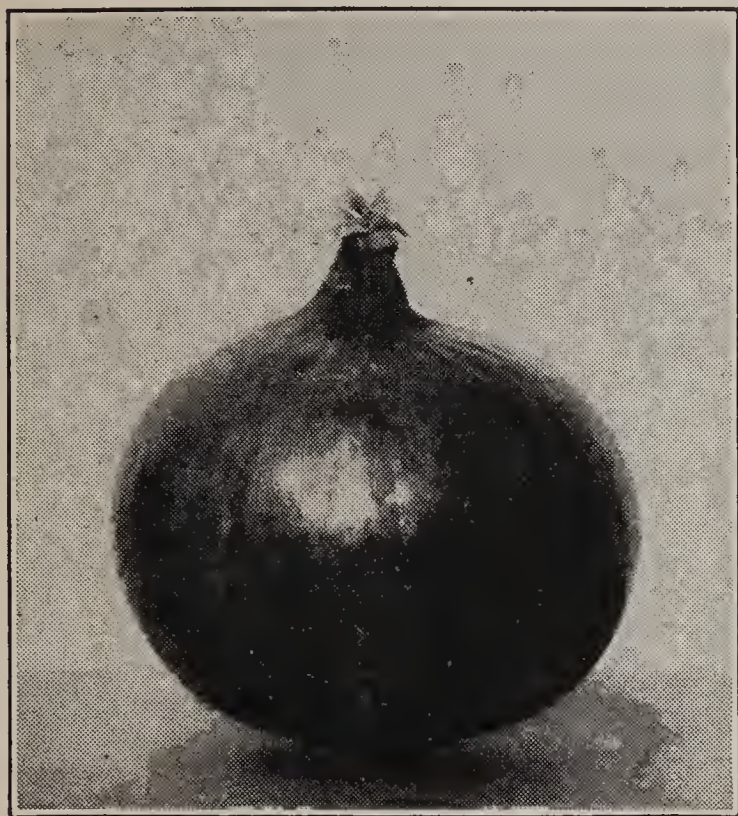
No onions are more favored in the great onion producing sections than the 3 Southport types of Globe onions named below. They produce large crops of onion bulbs, with fine shape, magnificent color and good flavor. Their excellent keeping qualities recommend them alike to the market grower and the home gardener.

SOUTHPORT RED GLOBE—In this Southport Onion, we have a medium, large sized, globe shaped, purplish red bulb, with smooth, rich, glossy surface and a small neck. Its flesh is white, tinged with purple, tender and mild.

SOUTHPORT YELLOW GLOBE—Again, we have in this yellow sort, the many excellent qualities of the Red Southport, except that the bulbs are a straw colored, rich yellow. Flesh is a creamy white, if anything, a little milder than the Red variety.

SOUTHPORT WHITE GLOBE—To those who prefer a white onion, either for their market demands or because of a preference for the white sorts, when cooked, this sort is a prime favorite. It yields abundant crops of handsome, globe shaped, white bulbs, having a firm, mild, fine grained flesh.

STANDARD ONIONS



Red Wethersfield

LARGE RED WETHERSFIELD—Is the favorite red sort in many sections. Produces deep, rich, glossy purplish red bulbs, well flattened, yet thick through, with mild white flesh, tinged with pinkish rose. Specimens grow to a large size in about 100 days and keep well.

YELLOW GLOBE DANVERS—The standard variety for winter use in the eastern markets. It produces well-ripened bulbs, averaging 2 inches in diameter and nearly globe-shaped. The skin is a light golden brown or pale yellow, and the flesh is pure white, crisp, and mild in flavor. The plants have very slender necks, and consequently the bulbs keep well over winter. It is an enormous yielder, a crop of 600 to 800 bushels to the acre being not unusual.

PRIZETAKER or MAMMOTH YELLOW SPANISH—Is the most widely used of the sweet Spanish class, extensively grown for shipping and very productive. The bulbs are large, globular, glossy and of a light shade of yellow. Flesh is mild and sweet.

WHITE PORTUGAL or AMERICAN SILVERSKIN—Is a medium sized onion of mild flavor and with beautiful, clear, white skin. The variety is a favorite with many for use when young as a salad or bunching onion and for pickling. It usually matures about ten days earlier than White Globe and is fine for

fall and early winter use. The bulbs are nearly round when of bunching size, somewhat flattened when mature.

MAMMOTH SILVER KING—The skin is a beautiful, silvery white. The flesh is so sweet that it may be eaten raw like an apple. No other white onion attains such mammoth size. The bulbs are of an attractive shape, flattened, but thick. The average diameter of fully grown Mammoth Silver King onions is from 5 to 7½ inches.

WHITE QUEEN or PEARL—This is the best of all for small pickles and the earliest ripening onion in cultivation. The bulbs, of a pure paper-white, are generally very small, averaging only 1½ inches in diameter. They are most mild in flavor and are grown extensively for commercial and home pickling. The flesh is solid, pure white, and of a mild and pleasing flavor.

WHITE BERMUDA, 88 Days—This variety is not pure white but light straw colored. In the south this onion has widespread popularity. Is easy of cultivation, large sized and of mild flavor.

RED BERMUDA—Differs mainly from the White Bermuda in color.

CRYSTAL WHITE WAX, 90 Days—Is a large white flat onion. Popular in Texas and other southern states. Matures a fine, mild, sweet onion. Fine for market or home gardens.

OKRA or GUMBO

CULTURE—Sow in May or June, after the ground is warm, in drills three feet apart, cover the seed with about 1 inch of soil and thin to 12 or 18 inches apart in the row. Use 1 ounce of seed to 50 feet of row; 8 pounds to an acre.

WHITE VELVET — A valuable variety characterized by round, smooth pods, free from ridges and seams. It is the most prolific Okra now offered, bearing 16 to 20 remarkably white pods per stalk. Dried in the shade, the pods can be used for soups at any time.

PERKINS' MAMMOTH LONG POD — A dwarf-growing very early and prolific variety. Pods are long, slender, deep green and of fine quality.

DWARF LONG POD GREEN—Grows dark green pods 8 inches long and 1½ inches in diameter, fleshy and tender.

PARSNIPS

CULTURE—Sow as early in the spring as the weather will permit, in drills 15 inches apart, covering half an inch deep. When well up, thin out to 5 or 6 inches apart in the rows. Unlike carrots, they are improved by frost, and it is usual to take up in fall a certain quantity for winter use, leaving the rest in the ground till spring, to be dug as required. One ounce for 200 feet of drill; 5 to 6 pounds in drills for an acre.

HOLLOW CROWN or SUGAR—An excellent variety for the table. The roots are long, with smooth skin, uniform in shape, tender and of the best quality. The variety is easily distinguished by the leaves growing from the depression on top or crown of the root.

PARSLEY

CULTURE—The leaves of Parsley are used for garnishing and flavoring. Seed resembles that of celery, but larger and dark grayish green. After soaking for a few hours in tepid water, to hasten germination, sow in rich, mellow soil, in drills 1 foot apart and $\frac{1}{2}$ inch deep. Thin out the young plants to 4 inches apart. Give Hamburg Parsley the same culture as Carrots. One ounce will sow about 150 feet of drill.

CHAMPION MOSS CURLED—A vigorous, compact sort, very fine for garnishing and flavoring. Owing to its uniformly deep green color and attractive foliage, it is one of the best for either market or home use. Densely crimped and curled.

HAMBURG or TURNIP-ROOTED — The fleshy roots of this variety resemble parsnips, and are used in soups and stews. The flesh is white and somewhat similar to celeriac (root celery). The roots may be dug and carried through the winter, like turnips, etc.

PEAS

CULTURE—Sow in earliest spring and make successional plantings every ten days until June 1. Drill 1 to 2 inches deep in rows $2\frac{1}{2}$ to 4 feet apart. In the field use no sticks. In garden culture sow in double rows 10 inches apart, use supports for the tall growing varieties. A packet will sow about 20 feet of drill; a pound to 100 feet; 90 to 120 pounds per acre.



Gradus, or Prosperity

EARLY AND EXTRA EARLY PEAS

ALASKA, "Earliest of All," 55 Days—The vines grow $2\frac{1}{2}$ feet tall, bearing well-filled, medium sized pods. Matures practically the entire crop all one time. Very popular.

FIRST AND BEST—This is the earliest and most even strain of first early white peas. The vines are vigorous and hardy, of medium height, about $2\frac{1}{2}$ to 3 feet, bearing 3 to 7 straight pods of good size, about $2\frac{1}{2}$ to $2\frac{3}{4}$ inches long, each containing five to seven medium sized, smooth peas of fair quality. Seed small, smooth, yellowish white.

PREMIUM GEM—A dwarf, wrinkled, extra early variety, growing about 15 inches high, and is one of the earliest of the good quality varieties for home gardens. This is an older variety that certainly deserves its great popularity.

LITTLE MARVEL — An excellent dwarf sort for the market and home garden. The pods average a little longer than those of Premium Gem, are more attractive in shape and color and the peas are of superior quality. The vines are heavily set with large, straight, deep green pods which are square ended and are well filled with 7 large tender peas. Peas dark green, wrinkled and very prolific.

AMERICAN WONDER or NOTT'S EXCELSIOR—The improved strains of these old popular sorts are too much alike to list separately. In fact, our strain is much superior to most small dwarf wrinkled sorts sold under either name. Vines are 12 inches high, producing medium green pods, 3 inches long and $\frac{1}{2}$ inch wide, plump, straight and blunt-ended. Pods are always well filled with sweet, delicious peas.

LAXTONIAN — This handsome wrinkled pea is the largest podded of the dwarf varieties. The dark green pods are similar to Gradus in shape and splendid quality, are nearly as large in size and often mature a little earlier. Vines vigorous and productive, averaging 15 to 18 inches high; foliage dark green; pods about 4 inches in length. Seed light green, large, wrinkled, flattened, irregular in shape.

GRADUS or THOMAS LAXTON—Our improved strain of these two splendid peas combines the best qualities of both sorts and is practically identical. The vines are 3 feet tall, with pods about 4 inches long, filled with 7 to 9 large, sweet and tender peas. Seeds are large and wrinkled. Is ready for the table in 55 to 60 days after planting.

HUNDREDFOLD—Is much the same type of peas as the Thomas Laxton but quite dwarf, growing from about 18 to 20 inches tall and the pods about 4 inches long. They mature in about 60 days and contain 7 to 8 large dark green peas of excellent quality.

LAXTON'S PROGRESS—Is another selection of the Laxtonian type, bearing a little larger pods than the Laxtonian. The vines grow to a height of 18 inches and usually matures about 4 days earlier than the Laxtonian. Pods are 4 inches long, dark green in color, containing 7 to 8 delicious peas.

SECOND EARLY AND MAIN CROP PEAS

DWARF TELEPHONE — Resembles the Tall Telephone except the growth is only about 2 feet tall. Seeds are green, large, wrinkled. Matures in 75 to 80 days.

STRATAGEM or POTLATCH — Grows about 2½ feet tall, with large pods, much like the telephone type. Matures in about 80 days. It is a splendid late variety.

EVERBEARING — Grows from 1½ to 2 feet high, of branching habit, pods from 3 to 4 inches long, containing from 6 to 8 of the very largest peas, of particularly rich flavor. Unsurpassed in quality and very productive, continuing a long time in bearing.

CHAMPION OF ENGLAND — The strong-growing and much branched vines measure 4 to 5 feet tall and they bear an immense crop of fine pods. The pods are borne in pairs and measure 3½ to 4 inches long. They are crowded to capacity with six large peas. Very sweet.

ALDERMAN or DARK PODDED TELEPHONE — A late wrinkled variety growing 4 to 5 feet high and bearing freely large pods of a dark green color and on this account considered by many superior to the old Telephone. Quality extra fine.

LARGE WHITE MARROWFAT — One of the oldest varieties in cultivation and a favorite market sort. Pods large, well filled and of excellent quality.

MELTING SUGAR — Large edible podded. A great favorite, white seeded sugar pea, with those who have once used them. Plants grow 5 feet high, producing handsome large pods in 70 days, which when cooked resemble wax beans; tender and delicious.

CANADA FIELD PEAS — Field Peas can be grown under almost any condition of soil or climate, and not only will they provide a profitable crop, but will enrich the soil at the same time. They are valuable as a food for cattle and also make ensilage of good quality. When sown alone, about 3 bushels of seed are required to the acre. Usually sown broadcast and harrowed in. Seed smooth, small, white or brown.

PEPPER

CULTURE — Sow seed early in hot-bed, or about middle of spring, in open seed bed, the soil being light and warm. When 3 inches high transplant in rows about 2½ feet apart and 2 feet apart in the rows. Cultivate and keep free from weeds. One ounce will produce 1,500 plants.

LARGE BELL or BULL NOSE — Sometimes called Sweet Mountain. The plants are vigorous, about 2 feet high, compact and very productive, ripening their crop uniformly and early. The fruits are large, with thick, mild flesh of excellent quality. The color is deep green when fruit is young, bright crimson when ripe.

RUBY KING — The peppers are of a bright ruby red color, from 4½ to 6 inches long, by

3½ to 4 inches in diameter. Flavor mild, and can be sliced and eaten with salt and vinegar like tomatoes.

CHINESE GIANT, 80 Days — Not only most productive, but matures very early. Before the fruits ripen they are rich dark green, turning to a brilliant scarlet-red when they reach maturity. The fruits are 4 to 5 inches broad and fully as long. The flesh is the thickest ever found in any of the large size peppers, being strictly mild and sweet.

LONG RED CAYENNE — The conical shaped fruits are 3 to 4 inches long, of bright red color, and borne in great profusion. The flesh in character is very hot. A favorite for bunching with pot herbs or for winter use. Matures in 70 days.

ANAHEIM CHILI — Fruits are 6 to 8 inches long and about 1 inch through, tapered and become dark green before turning to a ripe scarlet. While this is a hot variety, they are mildly pungent.

RED CHILI — Pods are small and hot. Plants grow 18 inches high, fruit usually erect, about 2 inches long, cone shaped, bright red and very hot; exceedingly prolific. Matures in about 90 days. Used for pepper sauce or pickling or dried for winter use.

PIMIENTO (Sunnybrook) — Fruits are heart-shaped, 3 inches long, deep green becoming red. Sweet and of fine flavor.

PUMPKIN

CULTURE — Sow in the month of May, when you plant your corn. Make hills, same as you do for squashes, but about 8 to 10 feet apart each way. It is preferable to grow Pumpkins in the field, and not in the garden, as they always mix with the squashes and other vines. You can sow some among your late corn, putting in a few seeds, say every third or fourth hill. This will give you plenty for the table, and your stock the coming winter. One ounce of seed will plant 15 hills; 3 to 4 pounds will plant an acre.



Small Sugar

CONNECTICUT FIELD—Also known as Big Tom. A large, round or slightly oval shape pumpkin. Skin reddish orange color, with rich orange yellow flesh. Extensively grown for stock feeding, and generally planted with corn, producing enormous crops in 65 days. One of the best grown for pies. Fruits weigh about twenty pounds.

JUMBO or KING OF THE MAMMOTH—This is a giant among pumpkins, often reaching a weight of over a hundred pounds. The skin is salmon colored, flesh bright yellow and fine grained and good quality.

LARGE CHEESE or KENTUCKY FIELD—Fruits large, round and flattened, creamy buff in color; flesh yellow, very deep and fine quality for canning and pies.

SWEET or SUGAR (New England Pie)—A rather small variety; one of the very best

for pies and growing in the home garden. Fruits round, flattened at the ends and slightly ribbed; both skin and flesh of deep orange-yellow color; the flesh is exceedingly thick and of high quality.

STRIPED CUSHAW—Of the crookneck type, with mottled green and white stripes; fruit weighs up to 15 pounds; flesh yellow, very solid and fine grained.

WHITE CUSHAW—Bears fruit from 2 to 4 feet long, with crookneck. Shell is hard, a creamy white, with solid yellow flesh. A very fine selection.

JAPANESE PIE—An extremely early variety of large size, crooknecked. Skin is dark green, striped with still darker green, with yellow flesh. Keeps well and is popular as a pie pumpkin.

RADISH



French Breakfast Radishes

CULTURE—Sow seed as early in spring as the ground can be worked, $\frac{1}{2}$ inch deep, in rows 12 to 18 inches apart. Seed should be sown thinly, and if plants come up closer than 1 inch, they must be thinned out. Sow at intervals for succession until about the middle of May when the long sorts should be sown; about July 1, the winter varieties. One ounce will sow 100 feet of drill; 8 to 10 pounds per acre.

ROUND VARIETIES

CRIMSON GIANT—This variety grows twice the size of the other round sorts and still remains solid. The flesh is crisp and mild, as of the smaller sorts. Remains edible a long time.

EARLY SCARLET TURNIP—An old sort, well known, round, crisp and brittle. The skin is of a rich, scarlet color, while the flesh is

pure white, and always tender, mild and sweet. It has a small, short top, and is well adapted to open air culture or to forcing under glass. In favorable weather and in good soil it will mature in 18 to 20 days from the sowing of the seed. It is extensively used by market gardeners.

SCARLET TURNIP WHITE TIPPED—The upper part of the radish is a crimson red and the lower part a snowy white. They not only make an attractive appearance bunched but are as good as they look.

SPARKLER WHITE TIPPED—Much the same as the Scarlet Turnip White Tipped except that the white area is more pronounced. Tops are small and the roots almost globe-shaped, with bright scarlet color and a pronounced white tip. The quality is excellent and is recommended for both home and market garden.

FRENCH BREAKFAST—French Breakfast is a beautiful radish of true oblong or olive shape. The color of the skin is bright carmine, shading to clear white in the lower portion. The flesh is white, firm, and crisp; juicy, mildly pungent, and tender. It is well adapted for forcing in the greenhouse and hotbed. Matures quickly outdoors.

EARLY SCARLET GLOBE—The roots of this variety are slightly olive-shaped, a rich bright scarlet in color; flesh white and tender. We especially recommend this to gardeners as a large, first early forcing radish. It is also very desirable for first early planting outdoors.

LONG RADISHES

ICICLE—Grows more popular every year. It can be used as a summer radish or forced in frames. The roots are 4 to 5 inches long and $\frac{1}{2}$ to $\frac{3}{4}$ inch in diameter. They mature earlier than any of the other white radishes, and are very attractive, being pure white, almost transparent, and very tender.



Icicle Radishes

EARLY LONG SCARLET, SHORT TOP—This is a standard, most excellent sort, either for the home garden or market. Tops short and comparatively small. Roots smooth, slender, uniform in shape and a very attractive bright red in color. It matures beautiful radishes, which are always brittle and sweet, in 25 days from the sowing of the seed. It is undoubtedly the standard long red variety that will withstand the hot dry weather and remain firm and crisp and of fine flavor.

WHITE STRASBURG—A white radish, of large size, often growing 4 to 5 inches in severe heat. This variety keeps continuously crisp and tender for a long time. The home and market gardeners' favorite summer radish. Ready to use in about 45 days.

FALL OR WINTER RADISHES

WHITE CHINESE or CELESTIAL—An outstanding variety, growing to enormous size. The roots are cylindrical and grow 8 to 10 inches long with a diameter of 4 inches. The flesh is crisp, juicy, and tender. Agreeably mild in flavor. The roots are easily stored in boxes packed in sand and will keep all winter long. This is the most widely grown of all winter radishes.

CHINA ROSE (Scarlet China)—Sown in the fall, the seed will produce 5-inch roots of deep rose-color which will keep well into the winter. The pure white flesh is very firm, compact, and pleasingly pungent.

LONG BLACK SPANISH WINTER—Grows 5 to 8 inches long, 1 to $1\frac{1}{4}$ inches through at top; skin black; flesh white and firm.

ROUND BLACK SPANISH—Similar to Long Black Spanish, but is round in shape.

RHUBARB or PIE PLANT

CULTURE—Sow in drills 1 foot apart, 1 inch deep. When a few inches high, thin a foot apart. In the fall prepare the ground for the final bed by deep trenching. Mix manure with the soil; the richer the soil and the deeper it is worked the better. Set the plants 3 feet apart each way. The stalks should not be cut the first spring. One ounce will produce 1,000 plants.

VICTORIA—Is standard sort.

SALSIFY (Vegetable Oyster)

CULTURE—Sow the seed early in spring, in drills 12 inches apart and 1 inch deep, thinning out the young plants to 6 inches. The roots will be ready in October, when a supply should be taken up and stored. Those remaining will suffer no injury by being left in the ground until spring. One ounce will sow about 50 feet of drill.

MAMMOTH SANDWICH ISLAND—Tender and delicious. Superior to all other sorts.



Bloatersdale Savoy Leaved

SPINACH

CULTURE — Spinach demands rich, light soil. Sow seed in early spring, 1 inch deep, in rows 12 inches apart, and make additional sowings every two weeks for a succession. For fall use, sow in August, and for a winter

crop, in September. One ounce will sow about 100 feet of rows; 10 to 12 pounds in drills to the acre.

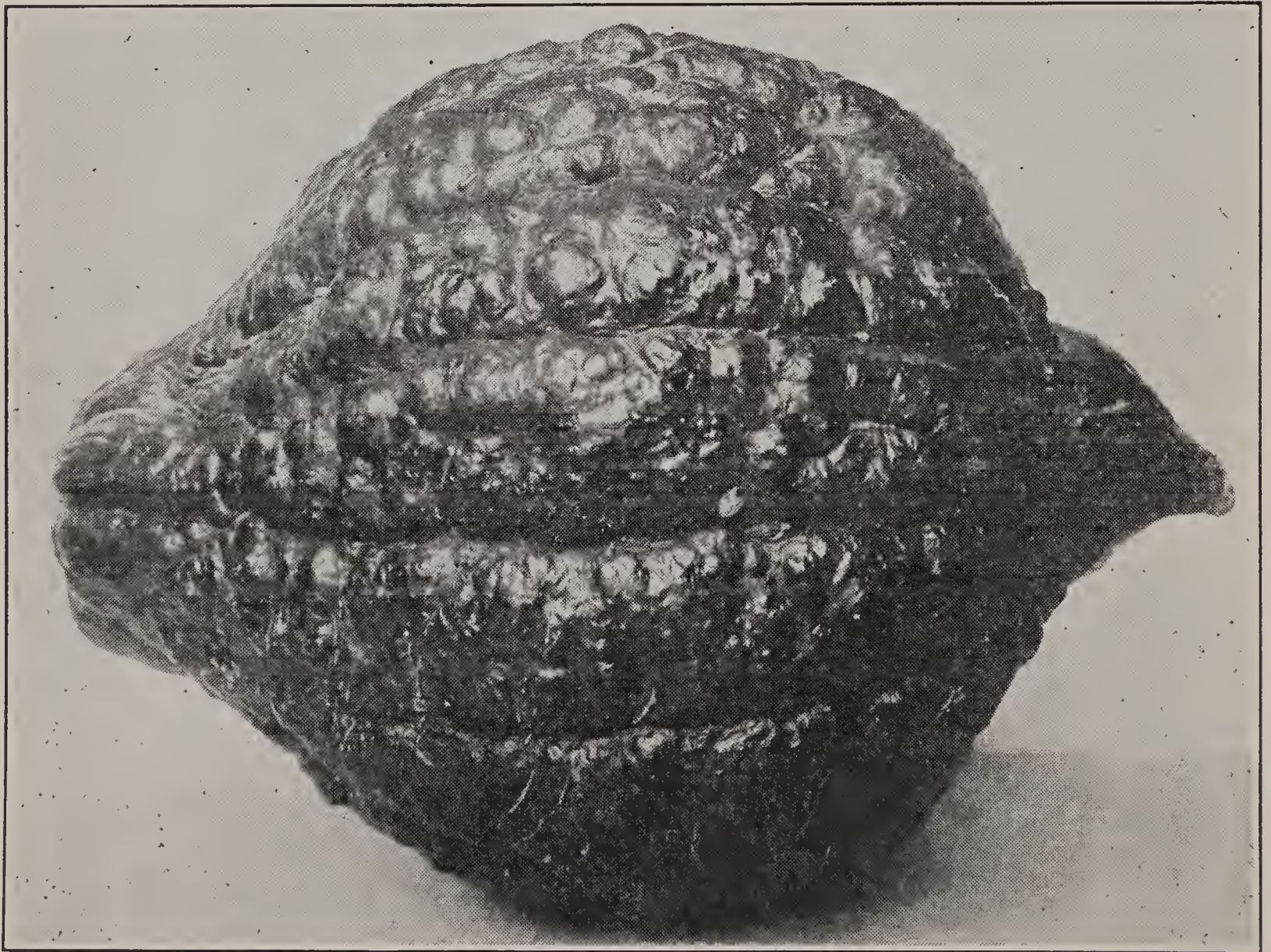
BLOOMSDALE SAVOY—The most largely grown variety and suitable for the home and market garden. One of the earliest and best for fall planting, for spring use being very hardy, but goes to seed quickly in hot weather; leaves broad, dark green and much crumpled.

GIANT THICK LEAVED (Round Seeded) —Is the best of the round-seeded, thick-leaved group. Is an enormous yielder of a deep green color and smooth character leaves. Valuable for home and market garden as well as canning.

BLOOMSDALE LONG STANDING—Small but very compact, with short-stemmed, dark green leaves. The leaves are pointed, of thick texture, and much crumpled. Stands a long time before bolting to seed. Yields over 1,000 bushels per acre on good soil.

NEW ZEALAND—Entirely different from other Spinach in type and in that it thrives during hot weather and in any soil, rich or poor. The tender shoots are of good quality and may be cut throughout the summer. Plant three or four seeds in hills two feet apart each way. This Spinach can be used in August or September or up till frost. By using only the leaves it will sprout out again.

SQUASH



Hubbard

CULTURE—Plant in warm ground after danger of frost is past. Summer varieties

should be planted in hills 4 to 5 feet apart each way, and winter kinds 8 to 12. Sow 8

seeds to the hill and thin to four plants when they begin to vine. One ounce summer will plant 50 hills; one ounce winter will plant 25 hills; 3 to 4 pounds to the acre.

SUMMER VARIETIES

WHITE BUSH SCALLOP—Fruit from our strain measures 9 to 11 inches in diameter, of creamy, white color and fine for table use or market.

YELLOW BUSH SCALLOP—Is similar to the White Bush, except in color, being a golden yellow. Is of the Patty Pan type, sometimes called Golden Custard.

GOLDEN SUMMER CROOKNECK—Crop matures in about 60 days. Fruit weighs about 2 pounds. Flesh is pale green while the skin is warted and of a bright yellow color.

GIANT SUMMER CROOKNECK—Is much larger than the Yellow Summer Crookneck. Fruit grows from 18 to 24 inches long and 4½ inches through.

FORDHOOK—While a summer sort, if stored in a warm dry place, keeps well. Outside color is bright yellow; inside, straw yellow. Splendid for baking or pies, as the flesh is dry and sweet.

AUTUMN and WINTER SORTS

DELICIOUS—Produces dark green fruit of medium size, weighing 5 to 10 pounds. Flesh is fine grained, of superb quality, tasty and a good keeper. To many, DELICIOUS is the finest flavored of all the winter squashes.

WARTY HUBBARD—Of the same type as the regular Hubbard but the shell is more heavily warted and is slightly larger than the true Hubbard. Our strain is an improvement of the old Warty Hubbard.

HUBBARD SELECT—Our strain is superior. Fruits are pointed at both ends, being somewhat warted, large, with dark bronze green skin. Flesh is orange-yellow, dry sweet and thick. A splendid keeper and of top notch quality, weighing 15 pounds.

GOLDEN or RED HUBBARD—We think this strain is more prolific and earlier than the regular HUBBARD. Has glossy warted orange-yellow skin, which turns to a salmon red at maturity. Fruits weigh 10 to 12 pounds, and keep well. Cannerymen prefer this sort. Flesh is deep golden yellow. Vines often ripen 5 to 6 of these large fruits.

TOMATOES

CULTURE—Are among the most delicious of our finest vegetables and can be raised successfully from the seed with a little care and attention. Sow the seed in the hotbed, shallow boxes or flower pots, about six weeks before time for transplanting in the garden or field. About March is the usual time for sowing. In May, set in the open ground about 3 feet apart each way. Is a good idea to stake or trellis the fruit. One ounce will give 1,500 plants. Use 4 ounces to the acre for transplanting.

ACME—Of the red standard kinds, Acme is still a favorite among shippers and home growers. Its uniform, smooth, medium sized purplish red fruit grows in clusters of 4 or 5, is solid, free from cracks and a good shipper. Flesh is deep red, fine in texture, and slightly acid.

BONNY BEST—Recommended by the U. S. Department of Agriculture as one of the best red sorts. Fruits are of bright scarlet red of medium size, weighing 5 to 6 ounces each, borne in clusters of 5 or 6. Plant BONNY BEST to follow EARLIANA.

JOHN BAER—Merits its high favor because it is one of the earliest to ripen good sized, round, smooth, bright scarlet fruits. Cannerymen, shippers, as well as home gardeners, prefer this variety.

CHALK'S EARLY JEWEL—The largest, smoothest and fine flavored, extra early bright red tomato. About ten days later than Spark's Earliana. It is even a heavier cropper, with

tomatoes of larger size and sweeter flavor, produced throughout the season.

DWARF CHAMPION or TREE—Forms a small tree, producing many good sized, uniform, glossy, purplish red fruits, having solid flesh with a meaty center. Is a second early or main crop and popular in the west.

EARLIANA—Has been styled—"First on the Market." Since its introduction, has become one of the most widely favored varieties. Is the earliest of all red tomatoes, setting forth freely its uniform, fleshy, smooth fruit, averaging 3 inches in diameter.

JUNE PINK—Some call it a Pink Earliana, as it is similar in habit to this famous sort. Is characterized by its large pink fruit, which often weighs 5 to 6 ounces. When pink fruit is preferred, this is the choicest selection.

KANSAS STANDARD—A rapid grower, producing glossy, smooth, red fruit in clusters. Is excellent keeper and shipper.

GLOBE—Is of a beautiful globe-shape. Among the very first to ripen, although of large size, very smooth, firm-fleshed, few seeds, ripens evenly; color a beautiful glossy rose, tinged purple. Flavor very agreeable; splendid slicing variety. A good general cropper, and one of the very best for greenhouse growing, or first-early crop.

PONDEROSA (Beefsteak)—The largest tomato yet introduced, frequently weighing a pound or more. The fruit is crimson-purple

in color, with very solid, luscious flesh and small seed-cells. Fine for the family garden and for the market. A fine slicing tomato, being very fleshy.

GOLDEN PONDEROSA

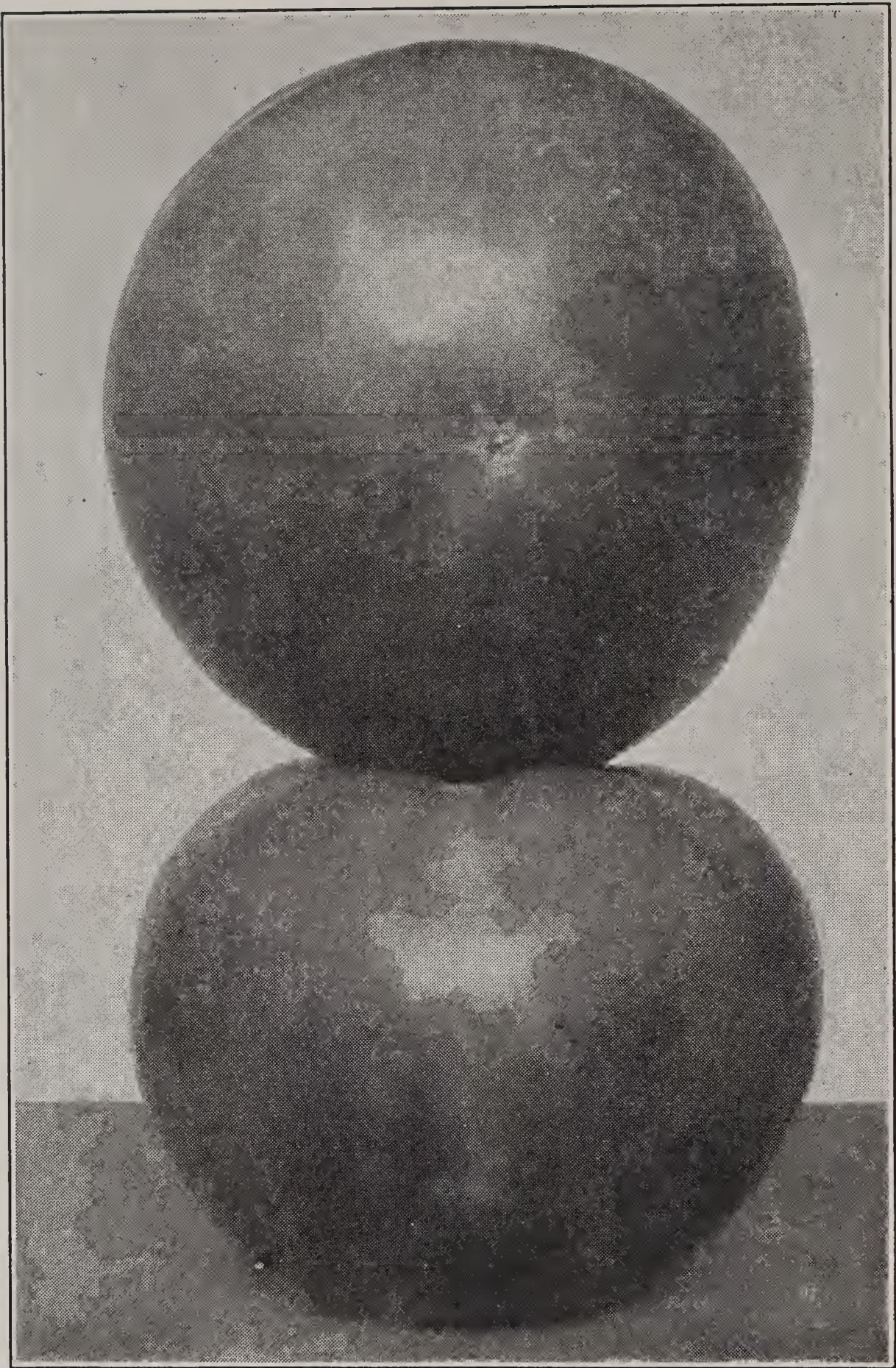
—This grand large tomato is similar to Crimson Ponderosa in all respects, except color being a beautiful golden yellow.

STONE — One of the best main-crop, red tomatoes. The fruit is large, smooth, bright scarlet, of fine quality, having little core. A heavy yielder of uniformly large fruits, and has proved to be a tremendous money-maker everywhere. Fine for canning or the home garden, and long considered the standard main-crop tomato for all purposes.

MARGLOBE—Only recently introduced but has become one of the best general purpose tomatoes, equally valuable for shipping and the home garden. Fruits are large, of deep scarlet color, globe-shaped, smooth, solid and of fine quality.

PRITCHARD (Scarlet Top) — Mid-season sort, valuable for both home and market garden. Fruits are deep scarlet, globe-shaped, smooth and solid.

OXHEART—Is a large variety, often weighing two pounds or more. Fruit is heart-shaped, pink, with solid flesh and very few seeds.



Dwarf Champion or Tree Tomatoes

SMALL-FRUITED TOMATOES

These are easily grown, immensely productive, and very delicious for preserves.

YELLOW PLUM—Size and shape just like a plum; of a bright lemon-yellow.

YELLOW PEAR—This is an attractive, small-fruited tomato of typical pear shape. Enormously productive and the fruits make excellent salad or may be used for marmalade. They are sweet and delicious.

PEACH—The fruits average 1½ inches in

diameter. The skin is covered with a slight bloom, and is of beautiful pinkish coloring.

YELLOW CHERRY — The small yellow fruits are born in clusters, each averaging half an inch in diameter.

RED CHERRY—Attractive small fruits of a bright, scarlet color. Sweet in flavor and fine for marmalade.

RED PEAR—The fruit is bright red, of true pear shape. Rich and distinct in flavor.

STRAWBERRY or HUSK TOMATO—The small, sweet yellow fruits are each enclosed in a husk. Fine for preserves.

TURNIPS

CULTURE—Sow early varieties in April, in drills 12 to 18 inches apart. Cover seed one-half inch and thin out to 4 to 6 inches in the row. Cultivate frequently. For succession, sow at intervals until the last week in May. For Fall and Winter crop, sow in July or August in drills or broadcast. Use one ounce to 250 feet of drill; 1½ pounds per acre in drills or 2½ pounds broadcast.

EARLY WHITE MILAN—Entire bulb of a soft creamy white. Small tops and with a single small tap-root. Flesh pure white, fine grained, sweet, and tender. The earliest white turnip, very smooth and handsome.

EXTRA-EARLY PURPLE-TOP MILAN—This splendid new turnip is the earliest in cultivation. The bulbs are flat, medium size, smooth, and free from rootlets, with thin and crisp white flesh of excellent flavor. The upper portion of the bulb is a rich purple, while the lower half is pure white.

WHITE EGG—An egg-shaped variety that grows to good size and matures very quickly. The skin is thin and white and the flesh solid and fine-grained. Fine for either spring or fall planting and a very good keeper.

EARLY WHITE FLAT DUTCH—An early white-fleshed strap-leaved variety; for quick growth, mild flavor; is best for the family garden in the spring, also grown for a fall crop. Medium size; matures in about 40 days. Skin is clear white; flesh excellent, mild, juicy. A good keeper.

PURPLE-TOP WHITE GLOBE—An excellent keeper and fine to grow for stock-feeding as well as for table use. The turnips measure 6 inches and more in diameter, and are of perfect globe form. They are clear, creamy white below and rich purplish red above. The white flesh is firm, crisp, and of mild flavor.

PURPLE TOP STRAP LEAVED—The most widely cultivated and best known variety; fine grained, never stringy and of mild flavor. It is white below with a bright purple top; flesh white, leaves short, narrow and will mature in 55 days. Desirable for the home garden or market.

COWHORN (Long White)—Mainly used as a stock-food, but of excellent quality for table use. It is a rapid grower, and is fine for turning under with crimson clover as a green manure crop. The roots are large, long, of carrot shape, and grow partly above the ground.

GOLDEN BALL—A rapid grower of excellent flavor; bright yellow color; good keeper and a superior table variety or for stock.

LARGE YELLOW or AMBER GLOBE—A beautiful variety of large size and regular shape. The roots are almost round, smooth and form a single tap-root. The skin is even and smooth, of a pale amber color. The beautiful creamy yellow flesh looks very attractive and is fine grained and free from hard fiber. The flavor is sweet and delicious. Easily stored for winter.

SEVEN TOP (Winter Green)—Used extensively for winter greens; does not produce a good bulb; desirable only for its tops.

RUTABAGAS or SWEDES

CULTURE—Sow the seeds a month earlier

than turnips. Rutabagas should be sown on ground enriched with well rotted manure, in drills 2½ feet apart, and should be thinned to 6 to 8 inches apart in the row.

PURPLE TOP YELLOW—Leading yellow variety; very productive; unsurpassed for stock feeding. Has the good quality of growing to a very large size and yet remaining solid and fine-grained. The yellow roots are purple at the top and oblong in shape, with short taproot, and the flesh is deep yellow, mild, and sweet. Keeps well until spring. Seed resembles that of turnips.

NASTURTIUMS

Few plants are more easily grown or remain longer in bloom than the Nasturtium, with its large shield-shaped leaves and beautiful irregular flowers, having long spurs and brilliantly colored petals. In favorable soil, flowers are produced in abundance throughout the season. Seed is usually sown outdoors as soon as the weather is warm and settled, in the rows where the plants are to remain. Well pulverized soil, preferably well drained and moderately rich, should be used and the seed covered with about one inch of fine soil, firmly pressed down. A sunny situation is essential for free blooming. If the soil is very rich, the plants give a large amount of foliage, but few flowers.

DWARF—Two months from sowing, these neat, compact plants are covered with gorgeously colored flowers, and they continue to bloom the entire season. The foliage is very attractive and the plants rarely reach a height of more than 1 foot.

TALL—These reach a height of 8 to 12 feet and are fine for trailing over stone walls, trellises, fences, and the like; they can also be grown as pot-plants for winter blooming, as screens, or as trailers for hanging-baskets and vases. The gorgeous coloring of their blooms and their long season of flowering place them among the most important plants for the garden and home grounds.

SWEET PEAS

These lovely flowers are steadily growing in popularity, and each year sees great improvement in color, shape, and number of blooms to a stem. Plant early, just as soon as the ground can be dug and is not sticky. If you are growing sweet peas every year, prepare your ground in the fall, and dig 18 inches deep, mixing manure thoroughly in subsoil. The surface soil in which the seed is sown should not contain manure. Sow seed three inches deep if on sandy soil, or two if in clay. The roots should not be allowed to become too dry. Water applied once or twice a week, preferably early in the morning or in the evening, is better than light sprinkling more frequently.

ECKFORD'S FANCY MIXED—A mixture of named varieties in all colors, from dark maroon through all shades of red to pink and white, and from dark blue and purple to lighter blues and lavender, also yellow and buff.

SPENCER—These are sometimes called the "Orchid-flowering Sweet Peas." They have very large flowers with waved or fluted petals. A great improvement on the old variety of Sweet Peas, with all their beautiful coloring.

FARM SEEDS



Alfalfa

ALFALFA SEED

The origin of this wonderful plant is lost in the mists of history. It was cultivated by the Greeks and Romans, 470 B. C., probably originating in Persia. Since, it has spread over most of the civilized globe, being extensively cultivated in Argentine, Chili, Italy, France, Spain, Germany, Siberia, Canada and the United States. Exceeded only by Timothy and Red Clover, it is the third most important forage crop in America. It has long been the main perennial forage crop in the semi-arid regions and great plain districts of the West. It is now crowding Red Clover for popularity in many parts of the Central West and East and also growing to advantage in the favored sections of the South.

ADVANTAGES — For a general purpose forage crop, Alfalfa has no superior, in this country. For Hay, it is unsurpassed. For Pasture, it has a large carrying capacity of both cattle and hogs. As a soiling crop, it can be managed to yield heavy dividends. As a soil builder, it enriches the land by bringing nitrogen into the soil.

CULTIVATION — Requires a deep, well-drained soil, free from acid. Seed-bed should be well settled, moist and free from weeds as possible. Inoculation is recommended except in sections where the extensive cultivation of Alfalfa or Sweet Clover results in natural inoculation. One pound of Alfalfa contains about 220,000 seeds; 12 to 20 pounds to the acre is generally sown. May be sown in the spring, late summer or early fall. Seed is variously sown, either broadcast or by seeders. A nurse crop of oats, barley, wheat or rye has resulted favorably in many sections. Alfalfa should be covered $\frac{3}{4}$ to 1 inch deep, not sown on the surface, as with some grasses and clovers.

Quality of the seed is of first importance. The origin of the seed should be known and due care taken to obtain plump berry, free

from noxious weeds and refined to test 98 to 99.50% purity and 90 to 95% growth.

Our facilities for marketing Alfalfa seed are second to none. We are among the first two or three largest handlers of Alfalfa seed in America. With our complete plants in Kansas City and Utah tapping the large producing areas of the plains of Kansas and Nebraska, together with the mountain valley districts of Utah, Colorado, Idaho, etc., our annual tonnage amounts to several million pounds. Seed recleaned and refined by us has been successfully sown in most states of the Union. We specialize in Kansas, Nebraska and Northwestern grown seed.

NORTHWESTERN GROWN — This seed grown in the high altitude mountain valleys of the Northwest is inured to icy winter blasts. The temperature oftentimes touches 25 below zero. Both soil and climate are fitted to produce in large quantities a hardy, prolific, heavy hay-yielding strain of plump, fine seed. Our seed grown in the heart of this producing section, insure the pure article refined to the highest purity. We can supply regional strains of Montana, Idaho and Utah origins.

KANSAS GROWN — On the great prairies of Kansas is produced a hardy, dry land strain, which has given satisfaction under the rigorous winters of Wisconsin, New York and other northern states. Kansas alfalfa is widely known for its hardiness, productiveness, high purity and strong germination. Much Kansas grown seed is used in the coldest states and tests have shown its results with the hardest origins.

OKLAHOMA GROWN — Produced in northern and western Oklahoma. This is especially adapted for sowing in all that district lying east and south of the producing belt as well as much of the corn belt section. It is characterized by high purity, attractive color and heavy hay yield.

GRIMM ALFALFA

GRIMM ALFALFA — Was introduced into Minnesota by a German immigrant by the name of Grimm, in 1837. Since that time its culture under rigorous climatic conditions has resulted in a very hardy strain, says U. S. Government Bulletin 757: "On account of its superior hardiness, the variety is particularly

recommended for the northern part of the great plains region and all parts of the Northwest, where little protection is afforded by the snow. The greater cost of the Grimm seed, and the inability to produce a large yield of hay in a mild climate, as the common alfalfa, will have a tendency to confine it to the more northern states."

CLOVERS

Sweet Yellow Clover

MEDIUM RED CLOVER—Has been styled the corner stone of old world and new world agriculture. Alone or in mixtures, for hay or pasture, or, in rotation, it is the most important legume crop in Canada, Northern America and Europe. Stock thrive on it; for hay or pasture, it is ideal. Two crops of hay are generally produced or one crop of hay and one of seed. May be seeded in the spring or fall, determined by soil or climatic conditions. Should be covered 1 to 1½ inches deep. As it has an extensive root system, extending 5 to 6 feet, a deep soil is advisable. Top dressing with manure adds to the success of the crop. Alone 8 to 12 pounds to the acre is sufficient, under normal conditions. This amount of seed is often sown mixed with 10 to 12 pounds of Timothy to the acre. It is a biennial or two-year crop. Due care should be exercised in selecting seed. Why experiment when our seed is tested for purity and growth?

MAMMOTH RED CLOVER or SAPLING—

Grows ranker than Medium Red Clover. Is valuable for fertilizing purposes on this account. Makes good hay, if cut early and excellent for grazing. One crop of hay per annum is the rule.

ALSIKE or SWEDISH CLOVER—Is a long lived perennial and seldom winter kills. Thrives under conditions that will kill out Red Clover, enduring cold, heat and succeeding on a variety of soils. Hay consists of 60% leaves and 40% stems. Reaches a height of 2 to 2½ feet. Requires 6 to 8 pounds to the acre, seeded alone. A bushel of seed weighs 60 pounds. Average yield of seed is 3 to 5 bushels to the acre.

WHITE or DUTCH CLOVER — Differs from Red and Alsike clover, in that it is a low close-growing clover with solid stems, rooting abundantly on the surface of the ground

Grows best in cool, moist sections, but persists in the South during the hot summers. Grows well in shady places. Usually sown with other grasses for lawns or permanent pastures. Grows rapidly and stands close cutting, making it a most valuable grass in a lawn mixture. When sown alone, 6 to 8 pounds to the acre is usual rate.



Red Clovers

SWEET CLOVERS

SWEET CLOVER (*Melilotus Alba*)—Only a few years ago, Sweet Clover was considered a weed pest. Today, it is counted one of our most valuable forage plants, having spread over much of the United States and Canada. Thrives well in both humid and semi-arid regions. Is a biennial plant, growing seedlings 2 to 4 feet high, with a deep root the first season. Quite early the second season, it begins its growth and produces stems 6 to 12 feet high, bearing white sweet scented flowers.

SWEET CLOVER has been successfully utilized for pasturage, hay and green manure. Provides excellent pasturage for all kinds of stock, especially for hogs and cattle. Will carry 20 to 30 head to the acre. For hay, should be cut as the first blossom appears, as later, the stems tend to become woody. In the North, one hay cutting or one of hay and one of seed may be secured. In the South, three cuttings of hay or two of hay and one of seed may be harvested. Yields of hay are reported from 1½ tons to 3 tons per acre. As a legume, Sweet Clover brings nitrogen from the air into the soil. For green manure, it is probably unsurpassed. Authorities claim plowing under a crop of Sweet Clover is equal to the application of ten loads of manure to the acre. May be plowed under in the fall or spring of the first or second season after utilizing for hay or pasture. The chief supply of seed is grown in Kansas, Nebraska, Dakota and Canada.

In planting, four things are important:

- 1—A well-firmed seed bed.
- 2—Scarified seed, on account of the prevalence of hard seeds.
- 3—Inoculation with Nitragin.
- 4—15 to 20 pounds to the acre of seed should be used.

YELLOW BLOSSOM (*Melilotus Officinalis*)

—Belongs to the same family and grows much the same as the White Blossom, but is about two weeks earlier. Is somewhat smaller and less leafy.

KOREAN LESPEDEZA — Is grown most anywhere, even on acid soil, waste or worn out land, and bare hillsides. All that is necessary is to scratch the soil with a harrow and sow the seed, some even broadcast it without soil preparation. It withstands droughts. It stands heavy grazing and largely increases the grazing capacity of pastures. In feeding value it is nearly as good as alfalfa—stock relish it. Sow in the spring, about 20 pounds to the acre.

GRASSES

KENTUCKY or MISSOURI BLUE GRASS (*Poa Pratensis*)

As a lawn grass in the north, also as the chief pasture grass on good soils, Blue Grass ranks first. It grows slowly at first and does



Blue Grass

not form a good sod until the second season. It blooms once a year. Blue Grass pastures start up early in the spring and remain green until late fall. They provide the sweetest, most nutritious pasturage for stock, improving with each season's growth.



Field of Timothy

After Timothy, Kentucky Blue Grass is the most famed grass in America. As a pasture grass is second to none. Because of its trade name, the impression is prevalent that this grass is a native of Kentucky. On the contrary, it is a native of the old world and grows there naturally. The prefix Kentucky probably came about because for many years the chief seed production was in that state. Of late years, the seed production has shifted and now half to two-thirds of the annual crop of seed is harvested in Missouri and Southern Iowa. We own and operate a large number of special stripping machines. Our seed is sun cured to prevent heating, which weakens germination, then threshed, cleaned and graded by our own special process. Recleaned stock from our plant is shipped into most northern states and exported to Europe and Australia.

SEEDING—When sown alone, 15 to 20 pounds per acre is recommended. A satisfactory method is to sow in the fall with Timothy and Clover. The field is cut for hay two years, then pastured, when the Blue Grass occupies the land. For lawns, 1 pound to 300 square

feet gives maximum results. Blue Grass is slow to germinate, taking 25 to 35 days. Its viability is easily spoiled when curing and also it is sometimes adulterated with cheaper grasses. As original handlers, our stock is dependable. Fourteen pounds to the bushel.

RED TOP (*Agrostes Alba*)

Is a perennial grass, succeeding over most of the U. S., except in arid regions and the extreme south. It thrives on wet soils. Has thick tender roots, which form a dense sward. Stands drought better than Timothy. Makes a splendid hay crop, curing easily. Grows about 2 feet high and yields around 2 tons of hay to the acre. Desirable for lawns, in mixtures, when closely mowed. Requires a firm, mellow seed-bed and shallow planting. May be sown in early spring or late summer. If our selected seed is used, 10 pounds to the acre will insure a stand. With other grasses, 4 to 5 pounds is sufficient. Weighs 14 pounds to the bushel.

TIMOTHY (*Phleum Pratense*)

When we consider that four times as much



Meadow Fescue

Timothy is cultivated as all other hay grasses combined, its place in American agriculture may be realized. This wide and favorable distribution is caused by the following factors: Splendid hay value; adaptability to a wide range of soil and climate; inexpensive seed; ease with which a stand is secured; easily cut and cured. Has shallow, fibrous roots, growing in stools. Grows 2 to 3 feet high. Average yields of hay are about 2 tons to acre. Succeeds best with a fine, well-firmed seed bed. May be sown in the spring or fall. A dressing of manure or fertilizer is desirable, as Timothy exhausts the nitrogen in the soil. If sown with Red Clover or Alsike, the clovers supply nitrogen to the soil and aid the growth of the Timothy. When sown alone, 12 to 15 pounds per acre are required. Is not suitable for permanent pastures alone, because it runs out in about 3 years, but is valuable with other grasses in a permanent pasture. Iowa, Missouri, Minnesota and Illinois are the great seed producing states. Our location at the door of the main producing area enables us to buy our stocks to the best advantage, both in quality and price. Weighs 45 pounds to the bushel.

TIMOTHY AND ALSIKE

The separation of these two seeds, when grown together, is impracticable. As this mixture excels straight Timothy in feeding value, and recommended by the experiment stations, we offer these varieties, as harvested, after cleaning.

ORCHARD GRASS (*Dactylis Glomerata*)

Also known as Cocksfoot. Is a valuable perennial grass grown more or less in most states in the Union and especially for seed in Kentucky, Missouri and Virginia. Is a bunch grass and doesn't form a compact sod. Stands more heat than Timothy, but is more easily injured by cold winter. Grows very early in the spring and until late fall. It grows well in shady places, which, no doubt, has given rise to its name. It makes a splendid, permanent pasture. When harvested for hay, should be cut as it reaches full bloom, as the stems tend to become woody. After the harvest of the first hay crop, a second rapid growth is produced, making a second crop of hay. Yields 1 to 2 tons per acre. Requires 15 to 20 pounds of our select seed to the acre. Weighs 14 pounds to the bushel.

MEADOW FESCUE (*Festuca Pratensis*)

Is also known as English Blue Grass. Although a standard grass in Europe, it does not enjoy the wide distribution in this country it merits. Meadow Fescue is a hardy perennial, with bright green succulent leaves, yielding on the average about 2 tons of good quality hay to the acre. It grows 15 to 30 inches in height and is useful as a pasture grass, coming on early in the spring and lasting late in the fall. This grass is as hardy as Timothy, thrives on moist or even wet soils, and, like Orchard Grass, grows well in shady places.

Requires a well worked fine seed bed. Usually seeded in the early fall, it may be seeded in the spring—15 to 20 pounds to the acre is the usual amount sown. Grass is commonly cut with a binder and cured in shocks, then threshed with ordinary grain thresher. Seed yields per acre range from 6 to 25 bushels. As the chief source of the seed is in eastern Kansas, we handle large amounts. Weighs 22 pounds to the bushel.

PERENNIAL or ENGLISH RYE GRASS (*Lolium Perenne*)

Has a wide distribution in Europe, but not freely used in this country, except in pasture and lawn mixtures. In some parts of the South and Pacific Coast region, it is used as an annual hay crop. Produces considerable foliage, which stays green throughout the season. Stock relish the hay. Weighs 20 pounds to the bushel and requires 25 to 30 pounds to seed an acre.

ITALIAN RYE GRASS (*Lolium Multiflorum*)

Rarely lasts over two years. Cultivated extensively in Europe and the Argentine, where, under exceptional manuring and irrigation, heavy hay yields are recorded. Normal yields in this country are about 2 tons to the acre. Grows very rapidly and recovers quickly after cutting. Besides its value as an annual hay crop, it is much used for lawns and temporary pastures. Weighs 24 pounds to the bushel and 30 pounds to the acre should be sown.

BROME GRASS (*Bromus Inermis*)

This is a valuable perennial grass, originating in Russia, is long lived, especially suited to cold and dry conditions. For Kansas, Nebraska and the Dakotas, it is strongly recommended. Has a dense sod with deep roots. Stems are erect, growing as high as four feet, having a heavy growth of leaves. Hay yield improves each year up to the third season. Three tons of hay to the acre are reported. It starts early in the spring and lasts well into the autumn, making a splendid pasture. Cattle thrive on it. It is one of the most palatable of all grasses.

Yields 250 to 450 pounds of seed per acre. One bushel (14 pounds) is sufficient to secure a satisfactory stand. For pasture alone, 20 to 25 pounds is better than light seeding. Weighs 14 pounds to the bushel.

LAWN GRASS

ROYAL QUALITY LAWN MIXTURE —

What is more attractive than a well kept lawn and how much difficulty many experience in getting a first-class green sward. A well kept lawn not only adds to the beauty and joy of a home, but rewards the owner in increasing the value of the property. Although a lawn may be obtained by sodding, this method is rarely satisfactory, because the soil does not contain the proper grasses to make an enduring velvety lawn. It is most important that there should be sown such a mixture of early and late grasses that a velvety green carpet be insured the whole season through. Many of the finest lawns, golf courses, cemeteries, parks and private estates in this and other sections were sown with our grass seed. Our Royal Lawn Grass is a blend of the finest domestic and imported grasses, scientifically blended, so as to insure a green sward from early spring to late fall. Our blend includes: Kentucky Blue Grass, White Clover, Red Top and the Rye Grasses and Fescues. Sow 1 pound to 300 square feet, 5 pounds to 1500 square feet, 25 pounds to a quarter of an acre. For old lawns, to patch or replenish, use around one-half these amounts. May be sown any time when there is sufficient moisture, the early spring is the best time. Prepare the ground, sow the seed broadcast and rake it in. If rolled afterwards, so much the better.

SHADY SPOT MIXTURE—Bare spots under trees and shrubs disfigure an otherwise attractive lawn. This mixture is composed of grasses that do well shaded and add to the beauty and symmetry of the lawn.

GOLF COURSE MIXTURES—Our ample stocks and wide experience in handling and refining grass seed enable us to combine successfully the necessary imported and domestic grasses for Golf Club purposes. Our regular mixture withstands close cutting and trampling. We offer special mixtures for the demands of any soil or climate.

BERMUDA GRASS

This splendid southern grass makes a rich green lawn, withstanding dry weather. Is popular in Oklahoma, Texas and other southern states for both lawns and pasture purposes. Will not last over our cold winters.

PASTURE MIXTURES

ROYAL PERMANENT PASTURE MIXTURE—This combination of Grasses is adapted to corn belt conditions and does especially well in Missouri and Eastern Kansas. It will out-last a combination of Timothy and Clover. Can supply different formulas adapted to any section of the U. S.

SUDAN GRASS (Andropogon Sorghum)



Sudan Grass

Sudan Grass was introduced by the U. S. Department of Agriculture from Egypt in 1909 and has since been distributed over many states of the Union. It is distinctly an annual and has none of the underground root stocks which make Johnson Grass objectionable. Has slender stocks, about the size of a lead pencil, which grow from four to eight feet high.

Like Sorghum, Sudan thrives best in a warm climate, but may be grown successfully in most sections of the country. Two to four cuttings are obtained, depending on climate and soil conditions. In regions where Clover and Timothy thrive, it is valuable as a catch crop, although it is favored by many as a hay grass. But, in the semi-arid regions of the West and Southwest, it has an increasing place as a valuable hay and pasture crop. Splendid results have been obtained mixing Sudan hay with Alfalfa for dairy cows. Stockmen have been warm in its praise as a pasture for cattle and hogs. Yield of cured hay varies from 3 to 10 tons of cured hay per acre. In humid regions, it has yielded excellent results grown with cow peas or soy beans.

Sow in the spring as soon as the soil becomes warm, generally about corn planting time. When sown in rows, 6 to 10 pounds are required per acre; broadcast, around 20 pounds is standard.

SOY BEANS

Soy Bean is native to Asia, where it is grown for human food and oil extraction. In the United States, Soy Beans have won rapid popularity as a great forage plant. Competing with Cow Peas, they have, however, spread over a much wider area. The soil and climatic requirements are much the same as corn. They draw nitrogen into the soil and are a great

soil builder. Also valuable for ensilage, hay and hogging down.

For hay, planting should take place so that the crop can be cut in September. Experiments on the feeding value of Soy Bean hay for dairy cows show a slight superiority over Alfalfa.

Crop may be pastured, particularly to hogs. Corn should be fed to balance the ration. The beans are rich in protein, equal to oil meal or cotton seed in feeding value for cows and hogs. Soy Beans are often grown with corn; three methods of planting with corn are popular: May be planted in the same hill with corn; in alternate hills in the same row; or alternate rows. A mixture of Soy Beans and Cow Peas for hay is planted in some sections, as is also the growing of Soy Beans with Sorghum in rows. A good seed bed is necessary to secure a satisfactory crop. Deep planting, together with sufficient disking and harrowing to form a firm seed bed with the upper 3 inches loose and mellow, is advisable. For hay, may be broadcast, drilled or sown in cultivated rows. For seed production, rows 36 inches apart are recommended. One bushel of seed is sufficient for 2 acres when planted in rows, while, if broadcast, a bushel or a bushel and a peck to the acre is advisable.

Soy Beans weigh 60 pounds to the bushel, and when grown for seed should yield 30 to 50 bushels of seed to the acre.

Except in the South, where natural inoculation takes place, it is advisable to inoculate the seed with some good culture, as Nitrugin. Although there have been upwards of 200 varieties introduced, popular selection has narrowed the choice down to the following varieties named and a few others:

ILLINI—One of the most popular varieties raised in the corn belt for general commer-

cial purposes. Is a pure line selection made at the University of Illinois from the AK variety. Description: Plants erect, stems medium, pods yellow, seeds yellow to amber yellow, matures in about 105 days.

MANCHU—Great all around main season sort. Grows 40 inches in height. Matures seed in about 105 days. Bean is yellow with dark scars.

VIRGINIAS—Grows 50 inches high; of climbing habit in growth. Matures in 125 days. Has brown seeds. A great hay sort.

BLACK WILSON—Grows 3 to 4 feet high. Valuable for hay and a heavy seed producer. Seeds black. Makes hay in 90 days. Matures seed in 115 days.

JET or SABLE—A small black-seeded sort, excellent for hay or silage. Grows 40 inches tall. Matures in 115 days. Heavy yielder.

LAREDO—A splendid late maturing hay bean adapted for regions with a long growing season. Gives a heavy hay yield. Seeds are small and black.

SORGHUMS

Sorghums are grown for four purposes: Grain, forage, syrup and brooms. Cultivated more or less in most states of the Union, they also provide food as well as forage for the teeming millions of Asia, Africa and other countries.

Climate and soil requirements of the sorghum are much the same as corn. The essential difference lies in their special adaptability to sections having a warm summer climate. They are peculiarly drought resistant, remaining green with excessive heat and insufficient soil moisture.

Should be sown after the soil is warm in the spring and may be planted any time in the summer, with sufficient moisture to mature before frost. Sown in rows to be cultivated, or broadcast or drilled thickly for hay in the usual seeding method. When planted in rows, 10 pounds of seed per acre is the standard, or 50 to 80 pounds, if broadcast.

Yields of forage vary with maximum of 12 to 20 tons green and 4 to 8 tons dry forage.

SWEET SORGHUMS or CANE SEED

The sorghums are recognized by reason of their sweet sap or juice from which syrup is sometimes made and which makes tasty, succulent forage for stock.

EARLY AMBER

Is earliest variety and succeeds from Minnesota to Texas. Seeds are reddish yellow, nearly enclosed by shiny black hulls.

KANSAS ORANGE

Usually matures two weeks later than Amber and a week earlier than Sumac. Has compact heads, 5 to 8 inches long. Seeds are reddish yellow, becoming paler when ripe, with reddish to black hulls.

RED ORANGE

Introduced from Australia. Distinguished by its dark red hulls. Matures later than Amber, but more leafy and sweeter.

SOURCELESS ORANGE

So called because of the idea that the juice in the stem does not ferment as quickly as other sorts. Hulls are pale brown, half enclosing the straw colored grains.

SUMAC OR RED TOP

Have erect dense heads 6 to 9 inches long. Seeds are small brownish red with dark red or black hulls. Greatly esteemed in the southwest for fodder purposes.

JAPANESE HONEY

Have tall, juicy, very sweet stems. Hulls reddish with dark red brown grains. Popular for both syrup and forage. Matures late.

TEXAS-SEEDED RIBBON OR GOOSENECK

Has dense heads 5 to 9 inches long, stem tall and stout, 12 to 14 inches high, hulls black, grains reddish yellow.

ATLAS SORGO—Was selected from a field cross between Sourless Cane and Black Hulled Kaffir. Grows from 7 to 10 feet tall and requires about 125 days to mature. Has sturdy, leafy, juicy, sweet stalk. Heads are compact, somewhat cylindrical in shape and filled with white seed in shape and size similar to Kaffir. It combines the good points of both Kaffir and Cane with a superior yield of both Forage and Grain. Stockmen are loud in its praise for ensilage purposes.

NON-SWEET SORGHUMS

KAFFIR CORN—Of the Kaffir varieties, Dwarf Blackhull is most desirable for both grain and forage. Heads are 10 to 14 inches long with white grain and black hulls. Stalks grow erect 6 to 10 feet high. On good land, Kaffir produces 30 to 50 bushels per acre. Requires 110 to 135 days to mature seed.

HEGARI—Produces a juicy, sweet stalk; heads are cylindrical in shape from 7 to 8 inches long and 3 inches in diameter. Seeds are white with reddish brown markings about the size of Kaffir. Should mature in 100 to 110 days.

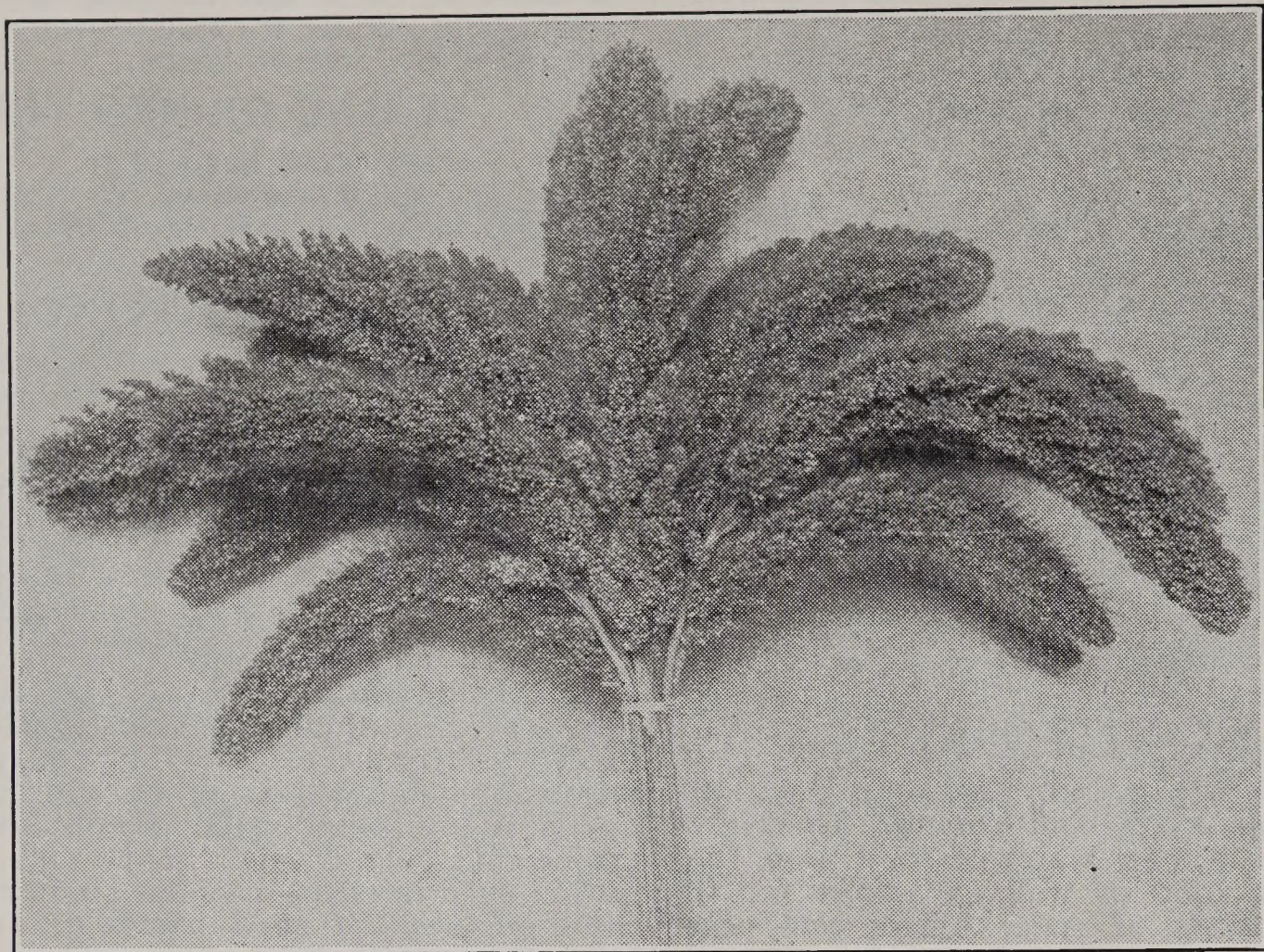
RED KAFFIR—Has long slender heads with dark red grains. Is less desirable for general purposes.

PINK KAFFIR—Recently introduced from South Africa, is intermediate between the White and Red varieties.

FETERITA—Introduced from the Sudan; has become very popular in the Southwest. Matures about one week ahead of Milo. Has slender stems, 5 to 7 feet high, erect heads and bluish white grains with black hulls.

YELLOW MILO MAIZE—It belongs to the DURRA group of Sorghum. Is characterized by compact, egg-shaped heads, which frequently grow turned down or Gooseneck. Ripened seed in 90 to 110 days. Grains are pale yellow, with dark colored hulls. A white seeded sort has also been developed. Several strains of Yellow Milo have been developed including the Standard Tall Milo, also the Dwarf, Double Dwarf, Sooner or Sixty Day, and Wheatland Milo.

MILLETS



Millet

MILLETS—Are used as human food in India and other parts of Asia, but, in this country, grown mainly for forage purposes. More or less millet is grown in every state in the Union, but the most important producing areas are in Kansas, Nebraska, Colorado, Missouri, Texas, Tennessee and the Dakotas.

Sow when the ground is warm, not earlier than two or three weeks after corn planting time. May be sown any time during the summer, with sufficient moisture and time to mature before frost. Under average conditions, the crop should mature in 50 to 60 days. From 2 to 4 pecks to the acre is recommended except for seed production when about half the amount should be used. May be either sown broadcast or in drills on suitably prepared ground. Should be cut for hay just after blooming. If fed only to cattle and sheep, may be left until its seed are in the milk stage. Is a valuable feed for cattle and sheep. Millet is probably no harder on land than any other heavy yielding crops. 50 pounds to the bushel.

GERMAN or GOLDEN MILLET—This variety was introduced into Tennessee from France and has since spread over the United States. Tennessee and Kansas are the chief sources of seed supply. Has produced from 2 to 4 tons of hay per acre and 40 to 60 bushels of seed. This variety has broad leaves, a large head and is most widely grown for forage purposes. Seed is yellow in color.

WHITE WONDER—This new sort is deservedly popular in many sections. Resembles the old-fashioned German Millet in appearance, heavy hay growth and good sized head.

HUNGARIAN MILLET — Is sometimes called Hungarian Grass. It possesses a small compact head filled with vari-colored seeds,

some being yellow, while others are black, white or purple. Matures between the Common and the German.

SIBERIAN—This introduction from Russia is largely grown in the semi-arid districts of Kansas and Colorado. In growth and hay tonnage, it is similar to Common. The seed is orange colored, except in the Kursk strain, which produces seed of a reddish cast.

JAPANESE MILLET or BILLION DOLLAR GRASS—Does not endure drought as well as other millets. Is a valuable forage crop, producing 4 to 7 tons of cured hay or 15 to 20 tons of green forage. Attains a height of 7 feet.

HOG MILLET or PROSO—Is cultivated in Russia for human food, mainly in this country as a cereal crop, used as hog feed and in poultry feed mixtures, though sometimes cut for hay. Produces large yellow seed, often 60 to 70 bushels per acre.

EARLY FORTUNE MILLET—Both Hog and Early Fortune are varieties of the Broom Corn Millet family, being very similar, except that the Early Fortune sort has large red seeds. These varieties are mainly grown in Kansas, Colorado and northward. Heads in 25 to 35 days.

COW PEAS

Although styled Cow Peas, this plant is really not a pea at all, but a bean. Originated in Africa. It is cultivated also in Asia, Europe, the West Indies and the United States. It is adapted to the same climatic conditions as corn, requiring, however, more heat to mature the crop. In the cotton belt territory, the Cow

Pea is the chief legume grown. In the old world, Cow Peas are grown, in the main, for human food, as are the white or nearly white varieties (Blackeye) in the United States. Our main reliance on the crop is for forage or green manure purposes.

Cow Peas should be planted when the ground becomes warm, generally a week or two after corn planting time. May be broadcast, drilled or sown in rows. When broadcast, 1½ bushels is a plenty, drilled, 30 to 40 pounds to the acre is usual practice. Should not be cut for hay before the first pods are ripe and may be delayed later. Hay yield ranges from 1 to 3 tons to the acre. In feeding value, Cow Pea hay is particularly high, on account of its high protein content. Cow Peas do well planted with Sorghum or Sudan. Are widely used for planting in between corn rows. Popular practice is to plant 3 pecks to the acre after the last cultivation of the corn. Sometimes Cow Peas are planted close to the corn plants, after the crop has been cultivated for the last time. Seed yield varies from 10 to 30 bushels to the acre. 60 pounds to the bushel.

WHIPPOORWILL—Is most popular variety grown and probably comprises half the average sown in the United States. Its seeds are buff colored, marbled with brown. Is very productive. Matures in about 85 days.

NEW ERA—Is earliest to mature, ripening in about 75 days. Very popular on account of its bushy habit of growth. Seeds are small buff colored, sprinkled with blue specks.

SEED CORN

Our seed corn is grown for us in Kansas, Missouri and some varieties in Iowa and is the choice selection of the crop. Ears are hand-selected, butted and tipped before shelling. Tests are made to determine the germination and moisture content. This selected tested corn does not compete in price with the cheaper commercial grades.

HYBRIDS—Of the good work done by our agronomists in promoting scientific agriculture and increasing crop production the development of Hybrid corn stands out as a monumental work. Millions of bushels of corn have been added to our annual production as a result of their breeding. We can supply the various state certified Hybrids as well as those developed by large seed corn growers adapted to your particular section.

OPEN POLLINATED YELLOW VARIETIES

REID'S YELLOW DENT (100 days)—Our selection of this splendid, popular, yellow Dent variety should suit you. Ears average 8 to 11 inches in length with 20 or more rows of kernels on the ear. Ear is small and grains grow close together. Grains almost covering butts and tips. Leaves and stalk make excellent silage and fodder.

IOWA GOLD MINE (90 days)—Is good all-purpose corn, ripening early. Ears are medium length, with small cob. Has deep grain of a beautiful golden yellow. Good ensilage and fodder corn.

PRIDE OF THE NORTH (90 days)—Is commended on account of its extreme earliness. Ear is not so large as the later varieties,

having 14 to 15 rows, growing 8 to 10 inches in length.

LEAMING (90 days)—A large, handsome deep grained corn producing good ears. Husks and shells easily.

WHITE VARIETIES

BOONE COUNTY WHITE (110 days)—Is splendid yielder on strong land. Grows ears 9 to 11 inches long with 18 to 20 rows. Has large white grains.

ST. CHARLES (red cob, 110 days)—Is fine silage corn. Has pure white kernels on a red cob. Yields heavy of both grain and silage.

IOWA SILVER MINE (100 days)—A beautiful hardy white corn, maturing in about 100 days. Grows a stalk about 6 feet high, with ears measuring 10 to 12 inches, having 18 to 20 rows of pure white kernels.

HAIRY OR WINTER VETCH

Although an annual, it re-seeds itself and will continue to come up year after year on the same ground. It is very hardy, enduring heat, cold and drought. Succeeds on most any kind of soil. As farmers become better acquainted with this valuable forage plant and soil builder, it will increase in popularity. Sow either in the spring or fall with rye or oats as a nurse crop. Yields 12 to 20 tons of green fodder per acre. 50 pounds of seed required to seed an acre. We urge all to sow this most valuable plant. Sown in the fall, it remains green under the snow and provides soiling and early pasture.

DWARF ESSEX RAPE

This valuable forage plant should have a larger place in farm economy. No plant furnishes forage for as little work and expense as Dwarf Essex Rape. Makes excellent feed for fattening hogs and sheep and for milk production in cows. Good for young lambs at weaning time. Valuable as a catch crop, following early maturing grain, as wheat or barley. May be sown in spring with the grain crop, taking the field after grain has been harvested. A common practice is to plant a patch of Rape early in the spring and insure an all-summer supply by successive plantings. In the South is usually sown in September or October for winter pasture. In the North, usual time is from the first of May to the last of July. When planted in rows, use 4 to 5 pounds to the acre; if broadcast, sow 6 to 8 pounds.

BUCKWHEAT

SEEDING—Good well-drained soil insures best returns on this crop. When planted in drills, sow 25 pounds to the acre; broadcast, use 50 pounds per acre; will, under favorable conditions, mature a crop in 8 to 10 weeks.

JAPANESE—Ripens slightly later than Silver Hull, but a better yielder. Kernels are larger than common buckwheat. Yields 35 to 40 bushels to the acre when harvested.

SILVER HULL—Grain is a light gray color. with a thin husk. Is a decided improvement over ordinary buckwheat. Excellent milling variety.

SUNFLOWER, RUSSIAN—Produces heads 8 to 12 inches in diameter. Sow in rows 24 to 36 inches wide, using about 5 pounds of seed to the acre. For silage, use 10 to 15 pounds of seed per acre.



ATLAS MILLS
PLANT No. 2

RUDY-PATRICK SEED COMPANY

CENTRAL INDUSTRIAL DISTRICT

KANSAS CITY . . . MISSOURI

REFINERS

and

WHOLESALEERS



Manufacturers

OH-BOY FEEDS and
OAT PRODUCTS